HT-KZ320
HT-TKZ322
HT-TKZ325
HT-KZ420
HT-TKZ422
HT-TKZ425

# Digital Home Cinema System

## user manual

imagine the possibilities

Thank you for purchasing a Samsung product.
To receive a more complete service,
please register your product at
www.samsung.com/global/register

SAMSUNG

# features

## Playback of many disc types

This Home Cinema System allows you to play back various discs, including DVD-VIDEO, CD, MP3-CD, WMA-CD, DivX, CD-R/RW, and DVD±R/RW.

## USB Host support

You can enjoy media files such as pictures, movies and music saved on a MP3 player, digital camera or USB memory stick by connecting the storage device to the USB port of the Home Cinema.

## Dolby Pro Logic II

Dolby Pro Logic II is a form of multi-channel audio signal decoding technology that improves upon existing Dolby Pro Logic.

## DTS (Digital Theater Systems)

DTS is an audio compression format developed by Digital Theater Systems Inc. It delivers full-frequency 5.1 channel sound.

## TV Screen Saver Function

If the main unit remains in Stop mode for 5 minutes, the Samsung logo appears on the TV screen.

This product will automatically switch to the Power Saving mode after 20 minutes in the Screen Saver mode.

## Power Saving Function

This product will automatically shut off after 20 minutes in Stop mode.

## Anynet+ (HDMI-CEC) Function

Anynet+ is a function that can be used to operate the main unit using a Samsung TV remote control, by connecting the Home Cinema to a SAMSUNG TV using a HDMI Cable. (This is only available with SAMSUNG TV's that support Anynet+.)

## Bluetooth Function

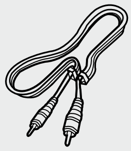
You can use a Bluetooth device to enjoy music with high quality stereo sound, all without wires!

## AV SYNC Function

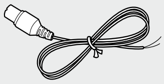
Video may lag behind the audio if the unit is connected to a digital TV.
To compensate for this, you can adjust the audio delay time to sync up with the video.

# WHAT'S INCLUDED

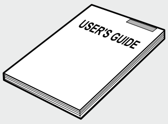
Check for the supplied accessories below.



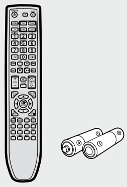
Video Cable



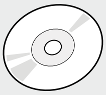
FM Antenna



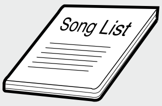
User's Manual



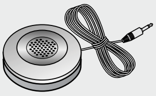
Remote Control



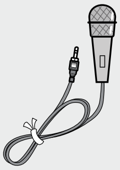
DVD Karaoke Disc



Song List Book

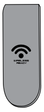


ASC microphone

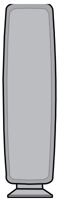


MIC

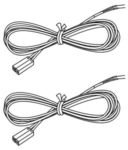
**SWA-4100(HT-KZ420/TKZ422/TKZ425)**



TX Card



Wireless Receiver Module

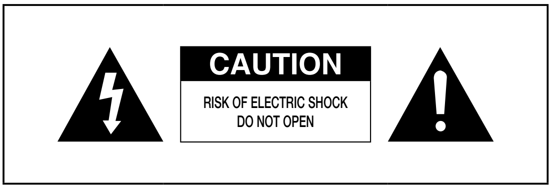


Speaker Cable (2EA)

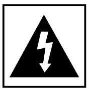
# safety information

## SAFETY WARNINGS

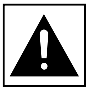
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER(OR BACK).
NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



**CLASS 1 LASER PRODUCT**
**KLASSE 1 LASER PRODUKT**
**LUOKAN 1 LASER LAITE**
**KLASS 1 LASER APPARAT**
**PRODUCTO LASER CLASE 1**



This symbol indicates “dangerous voltage” inside the product that presents a risk of electric shock or personal injury.



This symbol indicates important instructions accompanying the product.

**CLASS 1 LASER PRODUCT**

This Compact Disc player is classified as a CLASS 1 LASER product.

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

**CAUTION** : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED, AVOID EXPOSURE TO BEAM.

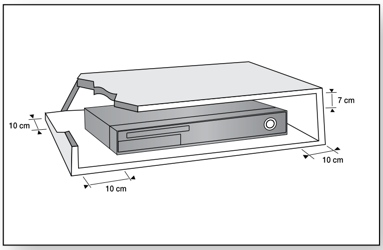
**WARNING** : To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

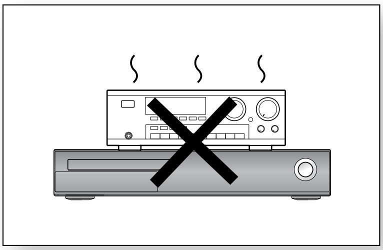
**CAUTION** : TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.
- This apparatus shall always be connected to a AC outlet with a protective grounding connection.
- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

**CAUTION**
- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.

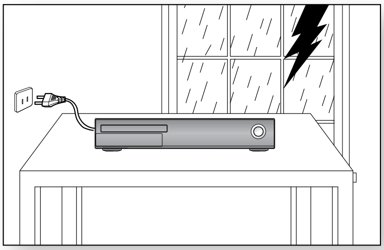
# safety information

## PRECAUTIONS

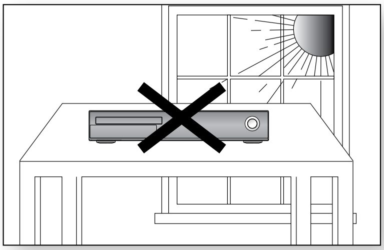




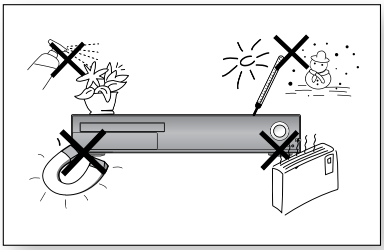
Ensure that the AC power supply in your house complies with the identification sticker located on the back of your player. Install your player horizontally, on a suitable base (furniture), with enough space around it for ventilation (7.5~10 cm). Make sure the ventilation slots are not covered. Do not stack anything on top of the player. Do not place the player on amplifiers or other equipment which may become hot. Before moving the player, ensure the disc tray is empty. This player is designed for continuous use. Switching off the DVD player to the stand-by mode does not disconnect the electrical supply. In order to disconnect the player completely from the power supply, remove the main plug from the wall outlet, especially when left unused for a long period of time.



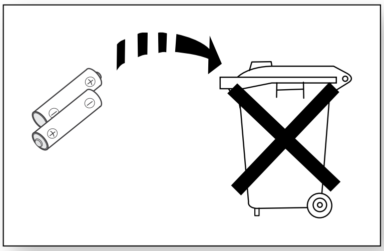
During thunderstorms, disconnect the AC main plug from the wall outlet. Voltage peaks due to lightning could damage the unit.



Do not expose the unit to direct sunlight or other heat sources. This could lead to overheating and malfunction of the unit.



Protect the player from moisture (i.e. vases) , and excess heat (e.g.fireplace) or equipment creating strong magnetic or electric fields (i.e.speakers...). Disconnect the power cable from the AC supply if the player malfunctions. Your player is not intended for industrial use. Use of this product is for personal use only. Condensation may occur if your player or disc has been stored in cold temperatures. If transporting the player during the winter, wait approximately 2 hours until the unit has reached room temperature before using.



The batteries used with this product contain chemicals that are harmful to the environment.
Do not dispose of batteries in the general household trash.

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# BEFORE READING THE USER’S MANUAL

Make sure to check the following terms before reading the user manual.

## Icons that will be used in manual

| Icon | Term | Definition |
|---|---|---|
| DVD | DVD | This involves a function available with DVD or DVD-R/DVD-RW discs that have been recorded and finalized in Video Mode. |
| CD | CD | This involves a function available with a data CD (CD-R or CD-RW). |
| MP3 | MP3 | This involves a function available with CD-R/-RW discs. |
| JPEG | JPEG | This involves a function available with CD-R/-RW discs. |
| DivX | DivX | This involves a function available with MPEG4 discs.<br>(DVD±R/RW, CD-R or CD-RW) |
| ! | Caution | This involves a case where a function does not operate or settings may be cancelled. |
| ✎ | Note | This involves tips or instructions on the page that help each function operate. |

✎

- **In this manual, the instructions marked with "DVD ( DVD )" are applicable to DVD-VIDEO and DVD-R/-RW discs that have been recorded in Video Mode and then finalized. Where a particular DVD type is mentioned, it is indicated separately.**
- If a DVD-R/-RW disc has not been recorded properly in DVD Video format, it will not be playable.

## About the use of this user’s manual

1) Be sure to be familiar with Safety Instructions before using this product. (See pages 4~5)
2) If a problem occurs, check the Troubleshooting. (See pages 79~80)

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# getting started

**DVD (Digital Versatile Disc)** offers fantastic audio and video, thanks to Dolby Digital surround sound and MPEG-2 video compression technology. Now you can enjoy these realistic effects in the home, as if you were in a movie cinema or concert hall.

1 ~ 6

DVD players and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.
The Region Number for this player is given on the rear panel of the player.
(Your DVD player will only play DVDs that are labeled with identical region codes.)

## PLAYABLE DISCS

| Disc Type | Mark (Logo) | Recorded Signals | Disc Size | Max. Playing Time |
|---|---|---|---|---|
| DVD-VIDEO | DVD VIDEO | VIDEO | 12 cm | Approx. 240 min. (single-sided) |
| | | | | Approx. 480 min. (double-sided) |
| | | | 8 cm | Approx. 80 min. (single-sided) |
| | | | | Approx. 160 min. (double-sided) |
| AUDIO-CD | COMPACT disc DIGITAL AUDIO | AUDIO | 12 cm | 74 min. |
| | | | 8 cm | 20 min. |
| DivX | DIVX | AUDIO + VIDEO | 12 cm | — |
| | | | 8 cm | — |

## DO NOT USE THE FOLLOWING TYPES OF DISC!

- CD-G, CD-I, CD-ROM, DVD-ROM and DVD-RAM discs cannot be played on this player.
  If such discs are played, a <WRONG DISC FORMAT> message appears on the TV screen.
- DVD discs purchased abroad may not play on this player.
  If such discs are played, a <CAN'T PLAY THIS DISC PLEASE, CHECK REGION CODE> message appears on the TV screen.

## COPY PROTECTION

- Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.
- This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners.
  Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation.
  Reverse engineering or disassembly is prohibited.

# DISC TYPE AND CHARACTERISTICS

This product does not support Secure (DRM) Media files.

## ❖ CD-R Discs

- Some CD-R discs may not be playable depending on the disc recording device (CD-Recorder or PC) and the condition of the disc.
- Use a 650MB/74 minute CD-R disc.
  Do not use CD-R discs over 700MB/80 minutes as they may not be played back.
- Some CD-RW (Rewritable) media, may not be playable.
- Only CD-Rs that are properly "closed" can be fully played. If the session is closed but the disc is left open, you may not be able to fully play the disc.

## ❖ CD-R MP3 Discs

- Only CD-R discs with MP3 files in ISO 9660 or Joliet format can be played.
- MP3 file names should be 8 characters or less in length and contain no blank spaces or special characters (. / = +).
- Use discs recorded with a compression/decompression data rate greater than 128Kbps.
- Only files with the ".mp3" and ".MP3" extensions can be played.
- Only a consecutively written multisession disc can be played. If there is a blank segment in the Multisession disc, the disc can be played only up to the blank segment.
- If the disc is not closed, it will take longer to begin playback and not all of the recorded files may be played.
- For files encoded in Variable Bit Rate (VBR) format, i.e. files encoded in both low bit rate and high bit rate (e.g., 32Kbps ~ 320Kbps), the sound may skip during playback.
- A maximum of 500 tracks can be played per CD.
- A maximum of 300 folders can be played per CD.

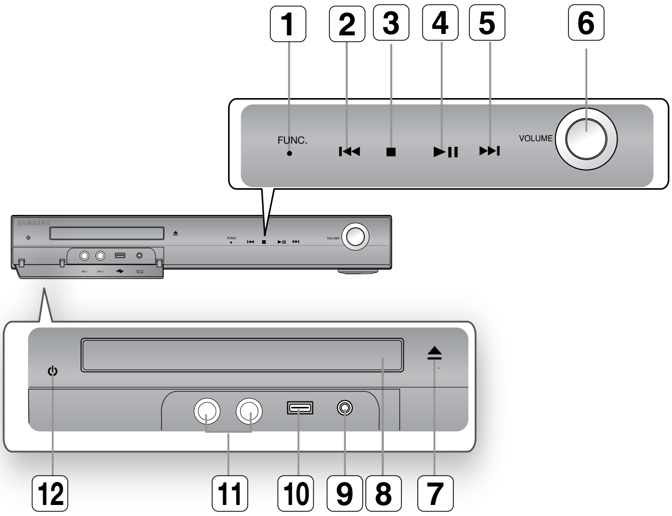
## ❖ CD-R JPEG Discs

- Only files with the "jpg" extensions can be played.
- If the disc is not closed, it will take longer to start playing and not all of the recorded files may be played.
- Only CD-R discs with JPEG files in ISO 9660 or Joliet format can be played.
- JPEG file names should be 8 characters or less in length and contain no blank spaces or special characters (. / = +).
- Only a consecutively written multisession disc can be played. If there is a blank segment in the multisession disc, the disc can be played only up to the blank segment.
- A maximum of 9,999 images can be stored on a single CD.
- When playing a Kodak/Fuji Picture CD, only the JPEG files in the picture folder can be played.
- Picture discs other than Kodak/Fuji Picture CDs may take longer to start playing or may not play at all.

## ❖ DVD±R/RW, CD-R/RW DivX Discs

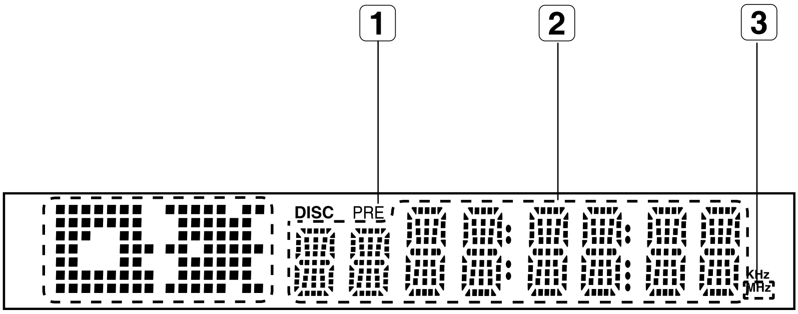
- Software updates for incompatible formats are not supported.
  (Example : QPEL, GMC, resolution higher than 800 x 600 pixels, etc.)
- Sections with a high frame rate might not be played while playing a DivX file.
- DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified or DivX Ultra Certified device that plays DivX video.

## FRONT PANEL


1
2
3
4
5
6
FUNC.
VOLUME
12
11
10
9
8
7

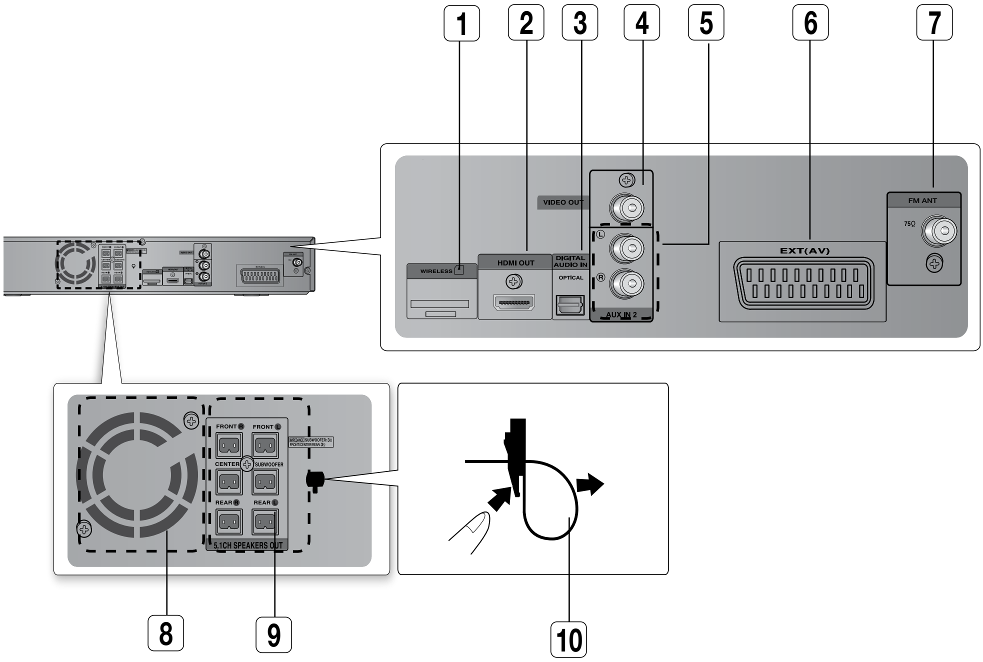
| | | | | | |
|---|---|---|---|---|---|
| 1 | FUNCTION BUTTON | 5 | TUNING UP & SKIP (▸▸I) BUTTON | 9 | AUX IN 1/ASC IN CONNECTOR |
| 2 | TUNING DOWN & SKIP (I◂◂) BUTTON | 6 | VOLUME CONTROL | 10 | USB CONNECTOR |
| 3 | STOP ( ■ ) BUTTON | 7 | OPEN/CLOSE BUTTON | 11 | MIC 1,MIC 2 JACK |
| 4 | PLAY/PAUSE (►II) BUTTON | 8 | DISC TRAY | 12 | POWER( ⏻ ) BUTTON |

## DISPLAY


1
2
3
DISC
PRE
KHz
MHz

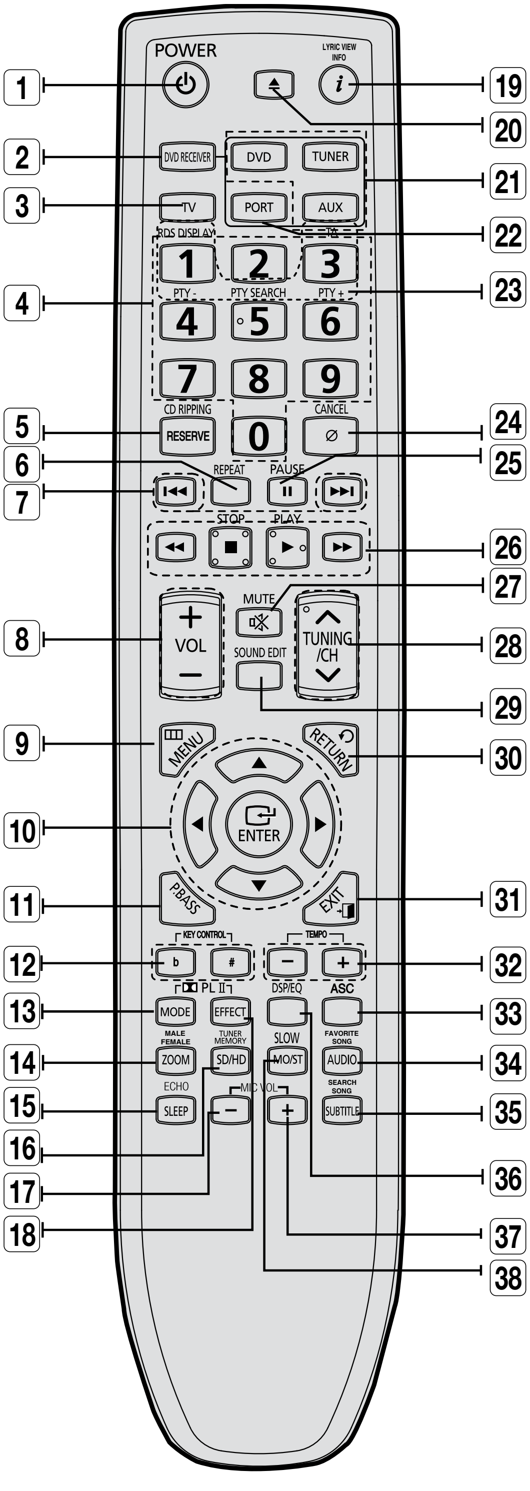
| | |
|---|---|
| 1 | TUNER PRESETTING INDICATOR |
| 2 | SYSTEM STATUS DISPLAY |
| 3 | RADIO FREQUENCY INDICATOR |

## REAR PANEL


1
2
3
4
5
6
7
VIDEO OUT
WIRELESS
HDMI OUT
DIGITAL AUDIO IN
OPTICAL
L
R
AUX IN 2
EXT(AV)
FM ANT
75Ω
FRONT R
FRONT L
CENTER
SUBWOOFER
REAR R
REAR L
5.1CH SPEAKERS OUT
8
9
10

| | | |
|---|---|---|
| 1 | TX CARD CONNECTION (WIRELESS) | The TX card enables communication between the main unit and the wireless receiver amplifier.(The wireless module is not provided for HT-KZ320/TKZ322/TKZ325 ) |
| 2 | HDMI OUT JACK | Use the HDMI cable, connect this HDMI output terminal to the HDMI input terminal on your TV for the best quality picture. |
| 3 | External Digital Optical Input Jack | Use this to connect external equipment capable of digital output. |
| 4 | VIDEO OUTPUT JACK | Connect your TV's Video Input jack (VIDEO IN) to the VIDEO OUT jack. |
| 5 | AUX IN 2 JACKS | Connect to the 2CH Analogue output of an external device (such as a VCR). |
| 6 | SCART JACK | Connect to a TV with scart input jack. |
| 7 | FM 75Ω COAXIAL JACK | Connect the FM antenna. |
| 8 | COOLING FAN | The fan always revolves when the power is on. Ensure a minimum of 4 inches of clear space on all sides of the fan when installing the product. |
| 9 | SPEAKER OUTPUT CONNECTORS | Connect the front, centre,rear speakers and subwoofer.<br>(HT-KZ420/TKZ422/TKZ425 does not have rear speaker connectors on the main unit,the rear speakers are connected to the Wireless module.) |
| 10 | CLAMP-WIRE | Fasten the speaker wires. |

## TOUR OF THE REMOTE CONTROL


POWER
LYRIC VIEW
INFO
DVD RECEIVER
DVD
TUNER
TV
PORT
AUX
RDS DISPLAY
TA
1
2
3
PTY -
PTY SEARCH
PTY +
4
5
6
7
8
9
CD RIPPING
RESERVE
0
CANCEL
REPEAT
PAUSE
STOP
PLAY
MUTE
VOL
SOUND EDIT
TUNING
/CH
MENU
RETURN
ENTER
P.BASS
EXIT
KEY CONTROL
b
#
TEMPO
PL II
DSP/EQ
ASC
MODE
EFFECT
MALE
FEMALE
TUNER
MEMORY
SLOW
FAVORITE
SONG
ZOOM
SD/HD
MO/ST
AUDIO
ECHO
MIC VOL
SEARCH
SONG
SLEEP
SUBTITLE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
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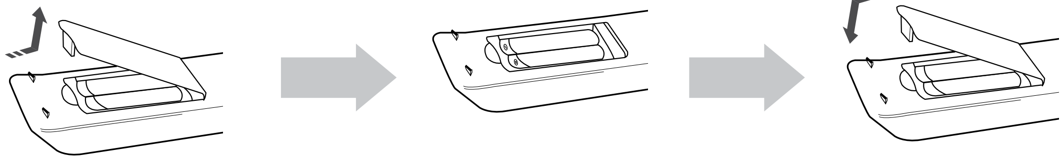
37
38

| | |
|---|---|
| 1 | POWER button |
| 2 | DVD RECEIVER button |
| 3 | TV button |
| 4 | Number (0~9) buttons |
| 5 | CD RIPPING,RESERVE button |
| 6 | REPEAT button |
| 7 | Tuning Preset/CD Skip buttons |
| 8 | VOLUME button |
| 9 | MENU button |
| 10 | Cursor/ENTER button |
| 11 | P.BASS button |
| 12 | KEY CONTROL button |
| 13 | PL II MODE button |
| 14 | MALE FEMALE/ZOOM button |
| 15 | ECHO/SLEEP button |
| 16 | TUNER MEMORY, SD(Standard Definition)/HD(High Definition) button |
| 17 | MIC VOLUME – button |
| 18 | PL II EFFECT button |
| 19 | LYRIC VIEW, INFO button |
| 20 | ⏏ OPEN/CLOSE button |

| | |
|---|---|
| 21 | DVD DVD button<br>TUNER TUNER button<br>AUX AUX button |
| 22 | PORT button |
| 23 | RDS Selection buttons |
| 24 | CANCEL button |
| 25 | PAUSE button |
| 26 | ▶ PLAY button<br>■ STOP button<br>◀◀ ▶▶ SEARCH buttons |
| 27 | MUTE button |
| 28 | TUNING/CH button |
| 29 | SOUND EDIT button |
| 30 | RETURN button |
| 31 | EXIT button |
| 32 | TEMPO button |
| 33 | ASC button |
| 34 | FAVORITE SONG/AUDIO button |
| 35 | SEARCH SONG, SUBTITLE button |
| 36 | DSP/EQ button |
| 37 | MIC VOLUME + button |
| 38 | SLOW, MO/ST button |

## Insert Remote Batteries



1. **Remove the battery cover in the direction of the arrow.**
2. **Insert two 1.5V AAA batteries, paying attention to the correct polarities (+ and –).**
3. **Replace the battery cover.**

**Follow these precautions to avoid leaking or cracking cells:**

- Place batteries in the remote control so they match the polarity : (+) to (+) and (–) to (–).
- Use the correct type of batteries. Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose the batteries to heat or a flame.

# remote control

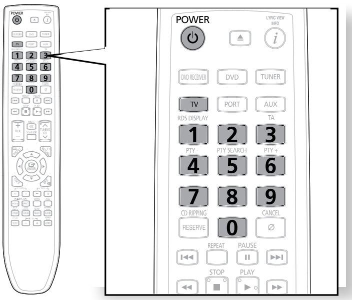
## SETTING THE REMOTE CONTROL

You can control certain functions of your TV with this remote control.

### When operating a TV with the remote control

1. Press the **TV** button to set the remote to TV mode.
2. Press the **POWER** button to turn on the TV.
3. While holding down the **POWER** button, enter the code corresponding to your brand of TV.
   - If there is more than one code listed for your TV in the table, enter one at a time to determine which code works.

   **Example : For a Samsung TV**
   While holding down the **POWER** button, use the **number** buttons to enter 00, 15, 16, 17 or 40.

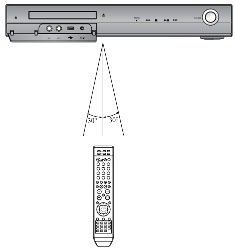

POWER
LYRIC VIEW INFO
DVD RECEIVER
DVD
TUNER
TV
PORT
AUX
RDS DISPLAY
TA
1
2
3
PTY -
PTY SEARCH
PTY +
4
5
6
7
8
9
CD RIPPING
CANCEL
RESERVE
0
REPEAT
PAUSE
STOP
PLAY

4. If the TV turns off, the setting is complete.
   - You can use the TV POWER, VOLUME, CHANNEL, and Numeric buttons (0~9).

- The remote control may not work on some brands of TVs. Also, some operations may not be possible depending on your brand of TV.
- If you do not set the remote control with the code for your brand of TV, the remote control will work on a Samsung TV by default.

### Operation Range of the Remote Control

The remote control can be used up to approximately
23 feet (7 meters) in a straight line.
It can also be operated at a horizontal angle of up to 30° from the remote control sensor.



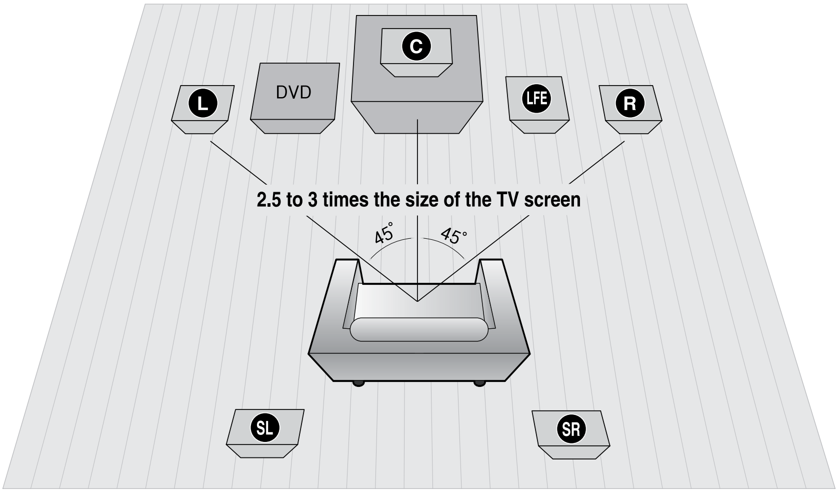
# TV Brand Code List

| No. | Brand | Code |
|---|---|---|
| 1 | Admiral (M.Wards) | 56, 57, 58 |
| 2 | A Mark | 01, 15 |
| 3 | Anam | 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14 |
| 4 | AOC | 01, 18, 40, 48 |
| 5 | Bell & Howell (M.Wards) | 57, 58, 81 |
| 6 | Brocsonic | 59, 60 |
| 7 | Candle | 18 |
| 8 | Cetronic | 03 |
| 9 | Citizen | 03, 18, 25 |
| 10 | Cinema | 97 |
| 11 | Classic | 03 |
| 12 | Concerto | 18 |
| 13 | Contec | 46 |
| 14 | Coronado | 15 |
| 15 | Craig | 03, 05, 61, 82, 83, 84 |
| 16 | Croslex | 62 |
| 17 | Crown | 03 |
| 18 | Curtis Mates | 59, 61, 63 |
| 19 | CXC | 03 |
| 20 | Daewoo | 02, 03, 04, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 34, 35, 36, 48, 59, 90 |
| 21 | Daytron | 40 |
| 22 | Dynasty | 03 |
| 23 | Emerson | 03, 15, 40, 46, 59, 61, 64, 82, 83, 84, 85 |
| 24 | Fisher | 19, 65 |
| 25 | Funai | 03 |
| 26 | Futuretech | 03 |
| 27 | General Electric (GE) | 06, 40, 56, 59, 66, 67, 68 |
| 28 | Hall Mark | 40 |
| 29 | Hitachi | 15, 18, 50, 59, 69 |
| 30 | Inkel | 45 |
| 31 | JC Penny | 56, 59, 67, 86 |
| 32 | JVC | 70 |
| 33 | KTV | 59, 61, 87, 88 |
| 34 | KEC | 03, 15, 40 |
| 35 | KMC | 15 |
| 36 | LG (Goldstar) | 01, 15, 16, 17, 37, 38, 39, 40, 41, 42, 43, 44 |
| 37 | Luxman | 18 |
| 38 | LXI (Sears) | 19, 54, 56, 59, 60, 62, 63, 65, 71 |
| 39 | Magnavox | 15, 17, 18, 48, 54, 59, 60, 62, 72, 89 |
| 40 | Marantz | 40, 54 |
| 41 | Matsui | 54 |
| 42 | MGA | 18, 40 |
| 43 | Mitsubishi/MGA | 18, 40, 59, 60, 75 |
| 44 | MTC | 18 |
| 45 | NEC | 18, 19, 20, 40, 59, 60 |
| 46 | Nikei | 03 |
| 47 | Onking | 03 |
| 48 | Onwa | 03 |
| 49 | Panasonic | 06, 07, 08, 09, 54, 66, 67, 73, 74 |
| 50 | Penney | 18 |
| 51 | Philco | 03, 15, 17, 18, 48, 54, 59, 62, 69, 90 |
| 52 | Philips | 15, 17, 18, 40, 48, 54, 62, 72 |
| 53 | Pioneer | 63, 66, 80, 91 |
| 54 | Portland | 15, 18, 59 |
| 55 | Proton | 40 |
| 56 | Quasar | 06, 66, 67 |
| 57 | Radio Shack | 17, 48, 56, 60, 61, 75 |
| 58 | RCA/Proscan | 18, 59, 67, 76, 77, 78, 92, 93, 94 |
| 59 | Realistic | 03, 19 |
| 60 | Sampo | 40 |
| 61 | Samsung | 00, 15, 16, 17, 40, 43, 46, 47, 48, 49, 59, 60, 98 |
| 62 | Sanyo | 19, 61, 65 |
| 63 | Scott | 03, 40, 60, 61 |
| 64 | Sears | 15, 18, 19 |
| 65 | Sharp | 15, 57, 64 |
| 66 | Signature 2000 (M.Wards) | 57, 58 |
| 67 | Sony | 50, 51, 52, 53, 55 |
| 68 | Soundesign | 03, 40 |
| 69 | Spectricon | 01 |
| 70 | SSS | 18 |
| 71 | Sylvania | 18, 40, 48, 54, 59, 60, 62 |
| 72 | Symphonic | 61, 95, 96 |
| 73 | Tatung | 06 |
| 74 | Techwood | 18 |
| 75 | Teknika | 03, 15, 18, 25 |
| 76 | TMK | 18, 40 |
| 77 | Toshiba | 19, 57, 63, 71 |
| 78 | Vidtech | 18 |
| 79 | Videch | 59, 60, 69 |
| 80 | Wards | 15, 17, 18, 40, 48, 54, 60, 64 |
| 81 | Yamaha | 18 |
| 82 | York | 40 |
| 83 | Yupiteru | 03 |
| 84 | Zenith | 58, 79 |
| 85 | Zonda | 01 |
| 86 | Dongyang | 03, 54 |

# connections

This section involves various methods of connecting the Digital Home Cinema to other external components.
Before moving or installing the product, be sure to turn off the power and disconnect the power cord.

## CONNECTING THE SPEAKERS



### Position of the DVD Player

Place it on a stand or cabinet shelf .

### Selecting the Listening Position

The listening position should be located about 2.5 to 3 times the distance of the TV's screen size away from the TV.
Example : For 32" TVs 2~2.4m (6~8feet)
For 55" TVs 3.5~4m (11~13feet)

### Front Speakers L R

Place these speakers in front of your listening position, facing inwards (about 45°) toward you.

Place the speakers so that their tweeters will be at the same height as your ear.

Align the front face of the front speakers with the front face of the center speaker or place them slightly in front of the center speakers.

### Center Speaker C

It is best to install it at the same height as the front speakers. You can also install it directly over or under the TV.

### Rear Speakers SL SR

Place these speakers behind your listening position. If there isn't enough room, place these speakers so they face each other. Place them about 60 to 90cm (2 to 3feet) above your ear, facing slightly downward.

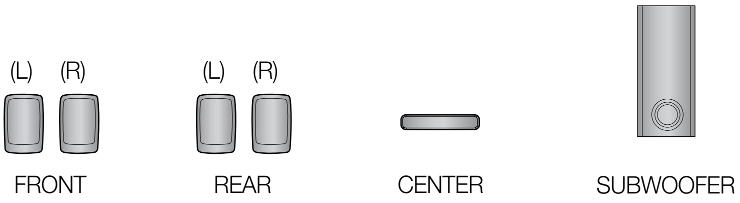
* Unlike the front and center speakers, the rear speakers are used to handle mainly sound effects and sound will not come from them all the time.

### Subwoofer LFE

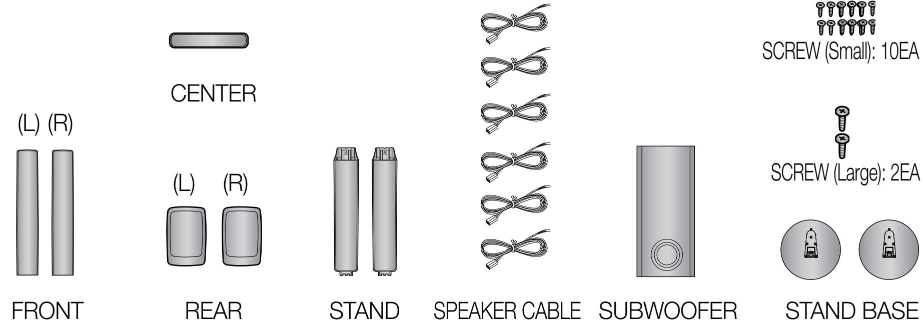
The position of the subwoofer is not so critical. Place it anywhere you like.

## Speaker Components

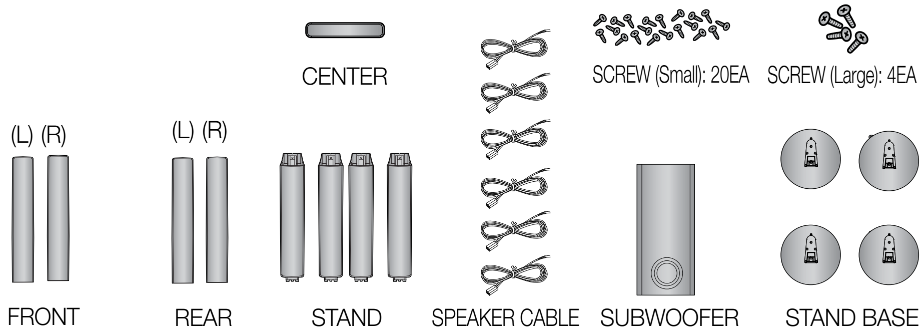
### HT-KZ320


(L) (R)
FRONT
(L) (R)
REAR
CENTER
SUBWOOFER

### HT-TKZ322

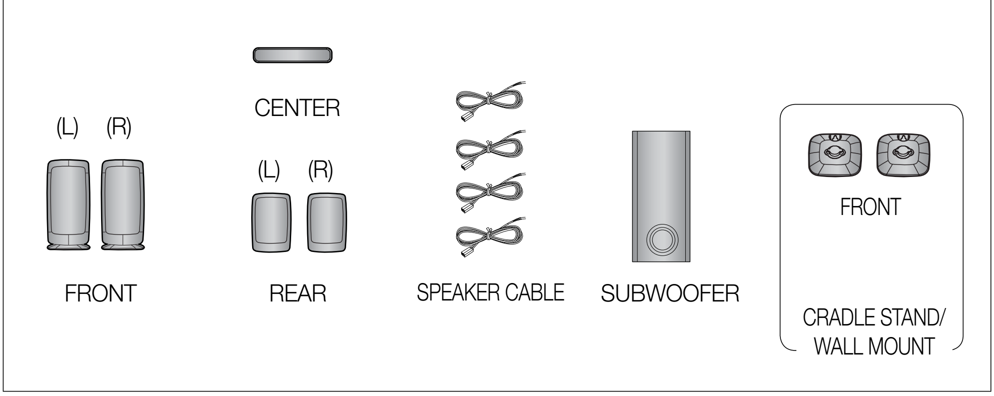

SCREW (Small): 10EA
SCREW (Large): 2EA
CENTER
(L) (R)
FRONT
(L) (R)
REAR
STAND
SPEAKER CABLE
SUBWOOFER
STAND BASE

### HT-TKZ325

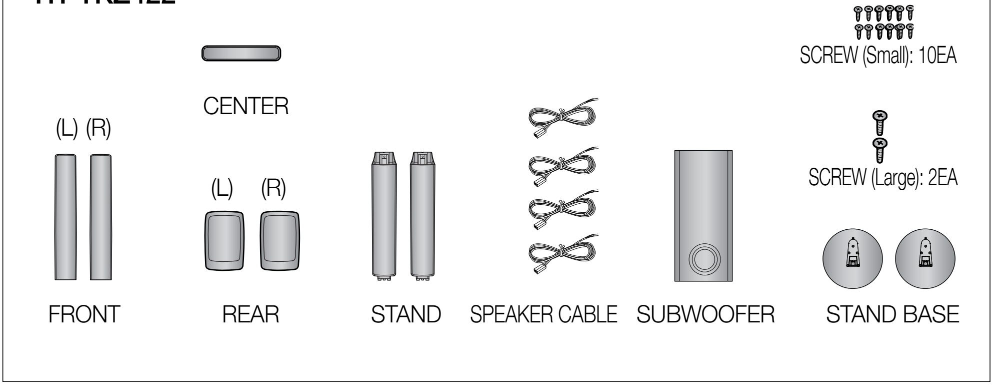

CENTER
SCREW (Small): 20EA
SCREW (Large): 4EA
(L) (R)
FRONT
(L) (R)
REAR
STAND
SPEAKER CABLE
SUBWOOFER
STAND BASE

## Speaker Components

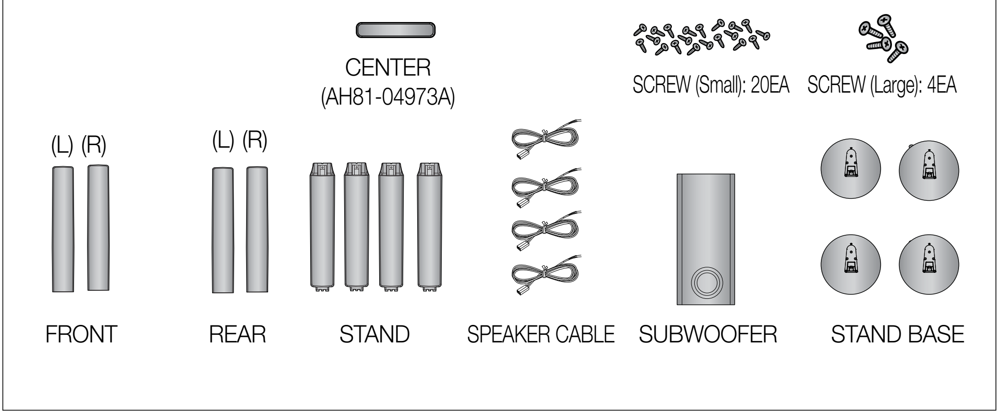
### HT-KZ420


CENTER
(L) (R)
(L) (R)
FRONT
REAR
SPEAKER CABLE
SUBWOOFER
FRONT
CRADLE STAND/
WALL MOUNT

### HT-TKZ422


SCREW (Small): 10EA
CENTER
(L) (R)
SCREW (Large): 2EA
(L) (R)
FRONT
REAR
STAND
SPEAKER CABLE
SUBWOOFER
STAND BASE

### HT-TKZ425

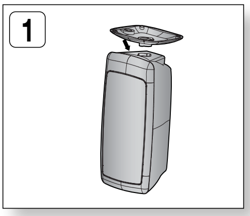

CENTER
(AH81-04973A)
SCREW (Small): 20EA
SCREW (Large): 4EA
(L) (R)
(L) (R)
FRONT
REAR
STAND
SPEAKER CABLE
SUBWOOFER
STAND BASE

## Installing the Cradle Stand

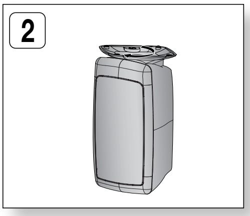
HT-KZ420 - Front Speakers

<Front>

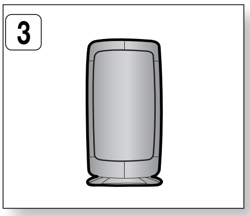
1. Insert the stand so that it fits into the hole as described in the figure.



2. Turn the stand clockwise to lock it. (Turning it counter-clockwise will loosen it.)



3. This is the completion of the stand installation.



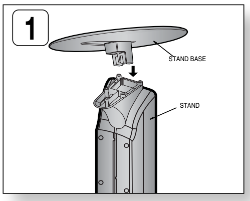
# Front/Rear Tallboy Stand

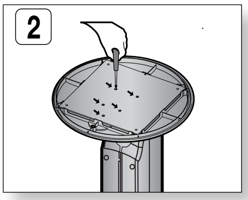
## How to Install the Speaker on the Stand

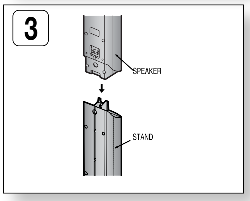
HT-TKZ322/TKZ422 - Front Speakers

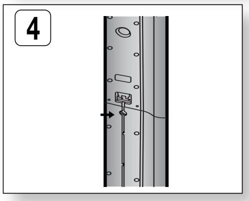
HT-TKZ325/TKZ425 - Front/Rear Speakers

1. Turn the **STAND** upside-down and connect it to the **STAND BASE**.
2. Insert five small **SCREWS** into the five holes marked with arrows using a screwdriver as shown in the illustration.
3. Connect upper SPEAKER to the assembled STAND.
4. Insert another large **SCREW** into the hole on the rear of the speaker marked with arrow using a screwdriver.









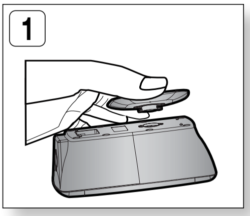
## Front Speakers Wall Mount Installation

### Installing the Wall Mount

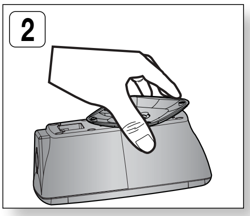
HT-KZ420 - Front Speakers

<Front>

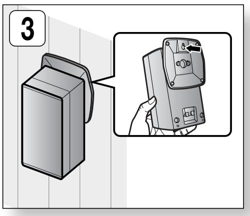
1. Insert the wall mount so that it fits into the rear hole of the speaker as in the figure.



2. Turn the wall mount counter clockwise to fix it. (This is in the reverse direction of the cradle stand installation.)



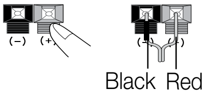
3. Use the wall mount hole (bracket) to install the speaker on the wall.

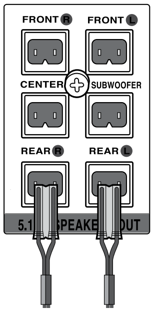


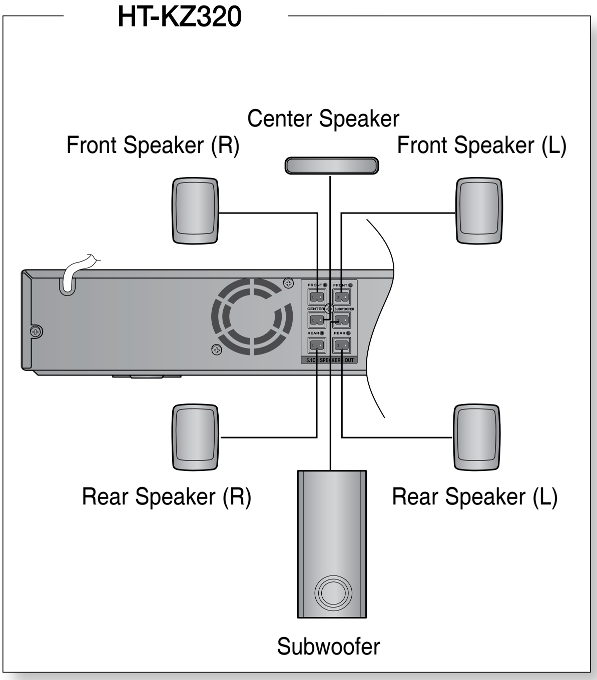
- Make sure the speaker is hung properly to avoid accidents or injury.

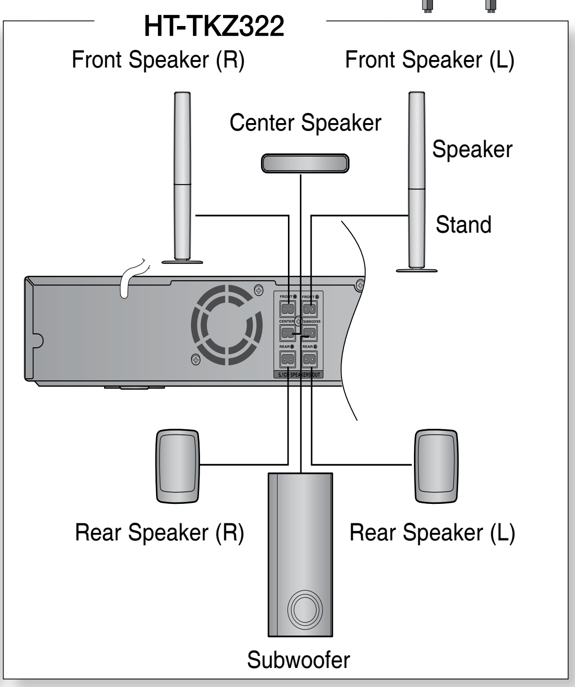
## Connecting the Front, Center,Rear and Subwoofer Speakers

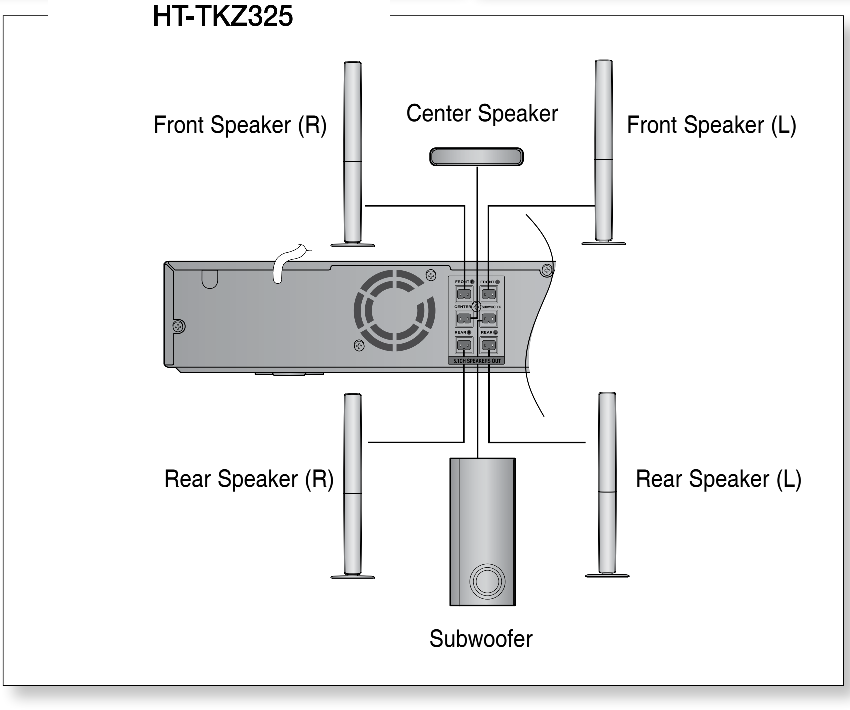
1. Press down the terminal tab on the back of the speaker.
2. Insert the black wire into the black terminal (–) and the red wire into the red terminal(+), and then release the tab.
3. Connect the other end of the speaker cable to the connecting jacks on the back of the Home Theater and Wireless Receiving Module.
   - Make sure the colors of the connecting plugs match the connecting jacks.




FRONT R
FRONT L
CENTER
SUBWOOFER
REAR R
REAR L
5.1CH SPEAKERS OUT

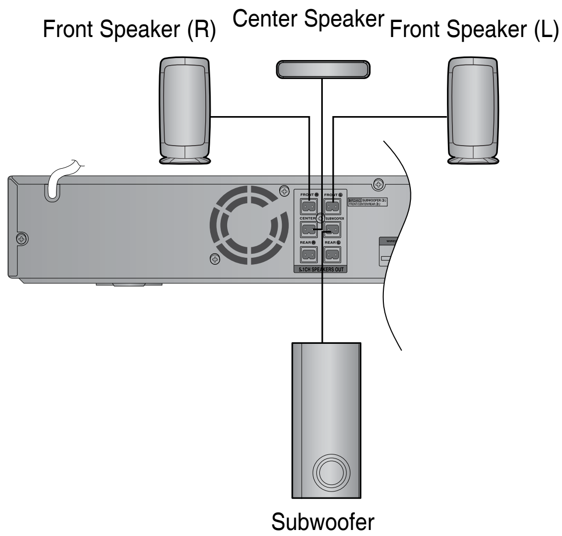

HT-KZ320
Center Speaker
Front Speaker (R)
Front Speaker (L)
Rear Speaker (R)
Rear Speaker (L)
Subwoofer


HT-TKZ322
Front Speaker (R)
Front Speaker (L)
Center Speaker
Speaker
Stand
Rear Speaker (R)
Rear Speaker (L)
Subwoofer

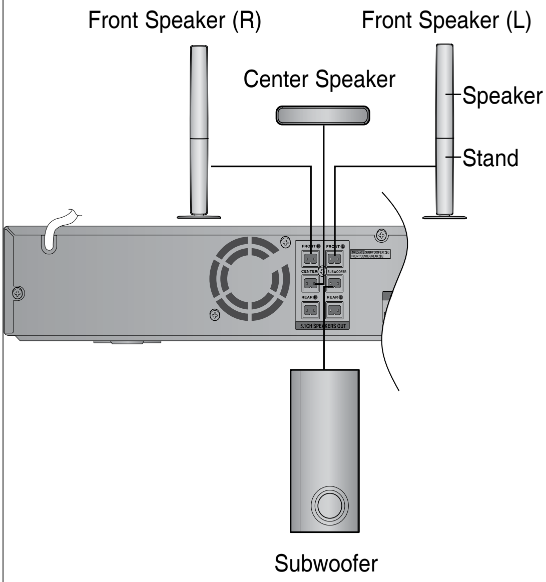

HT-TKZ325
Front Speaker (R)
Center Speaker
Front Speaker (L)
Rear Speaker (R)
Rear Speaker (L)
Subwoofer

## Connecting the Front, Rear, Center and Subwoofer Speakers

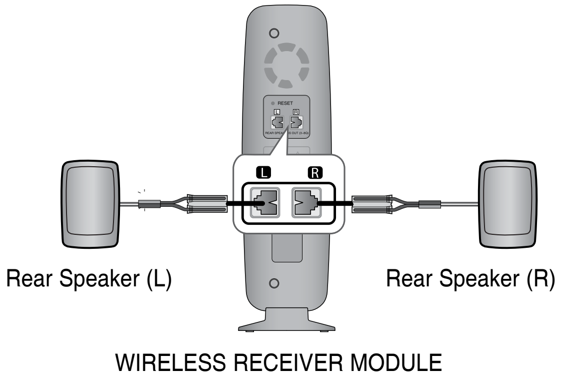
### HT-KZ420


Front Speaker (R)
Center Speaker
Front Speaker (L)
5.1CH SPEAKERS OUT
Subwoofer

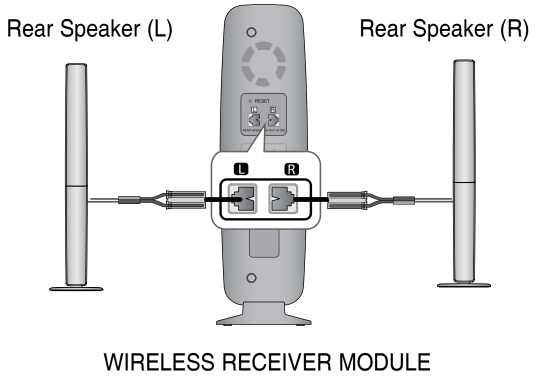
### HT-TKZ422/TKZ425


Front Speaker (R)
Front Speaker (L)
Center Speaker
Speaker
Stand
5.1CH SPEAKERS OUT
Subwoofer

### HT-KZ420/TKZ422


RESET
L
R
Rear Speaker (L)
Rear Speaker (R)
WIRELESS RECEIVER MODULE

### HT-TKZ425

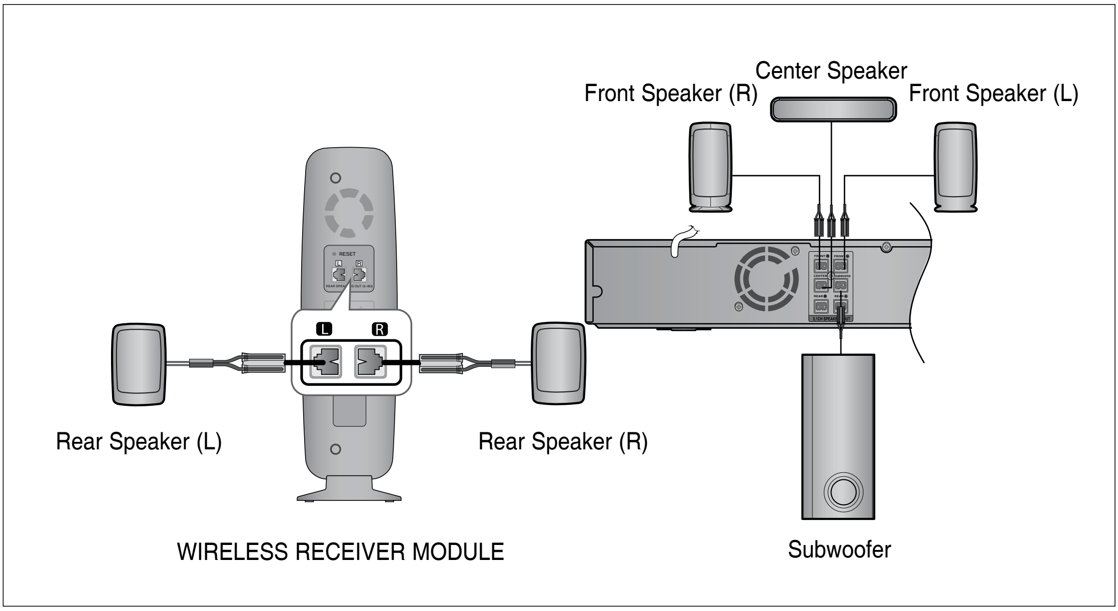

Rear Speaker (L)
Rear Speaker (R)
RESET
L
R
WIRELESS RECEIVER MODULE

- Do not let children play with or near the speakers. They could get hurt if the speaker falls.
- When connecting the speaker wires to the speakers, make sure that the polarity (+/–) is correct.
- Keep the subwoofer speaker out of the reach of children so as to prevent them from inserting their hands or alien substances into the duct (hole) of the subwoofer speaker.
- Do not hang the subwoofer on the wall through the duct (hole).

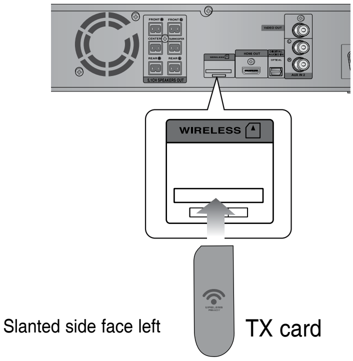
- If you place a speaker near your TV set, screen color may be distorted because of the magnetic field generated by the speaker. If this occurs, place the speaker away from your TV set.

# CONNECTING THE WIRELESS RECEIVING AMPLIFIER

## Wireless Receiving Module (SWA-4100)


Center Speaker
Front Speaker (R)
Front Speaker (L)
RESET
L
R
Rear Speaker (L)
Rear Speaker (R)
WIRELESS RECEIVER MODULE
Subwoofer

1. Connect the front, Center and Subwoofer speakers to the DVD Player, referring to page 23~24.
2. With the DVD Player turned off, insert the TX card into the TX Card Connection (WIRELESS) on the back of the main unit.
   - Hold the TX card so that the slanted side faces to the left and insert the card into the port.
   - The TX card enables communication between the main unit and the wireless receiver.
3. Connect the left and right rear speakers to the wireless receiving module.
4. Plug the power cord of the wireless receiving module in the wall outlet


WIRELESS
Slanted side face left
TX card

- HT-KZ420/TKZ422/TKZ425 doesn’t have rear speaker connectors on the main unit.The rear speakers are connected to the Wireless module.
- The rear speakers for HT-KZ320/TKZ322/TKZ325 can also be connected to the Wireless module (SWA-4100) if you purchase it separately.

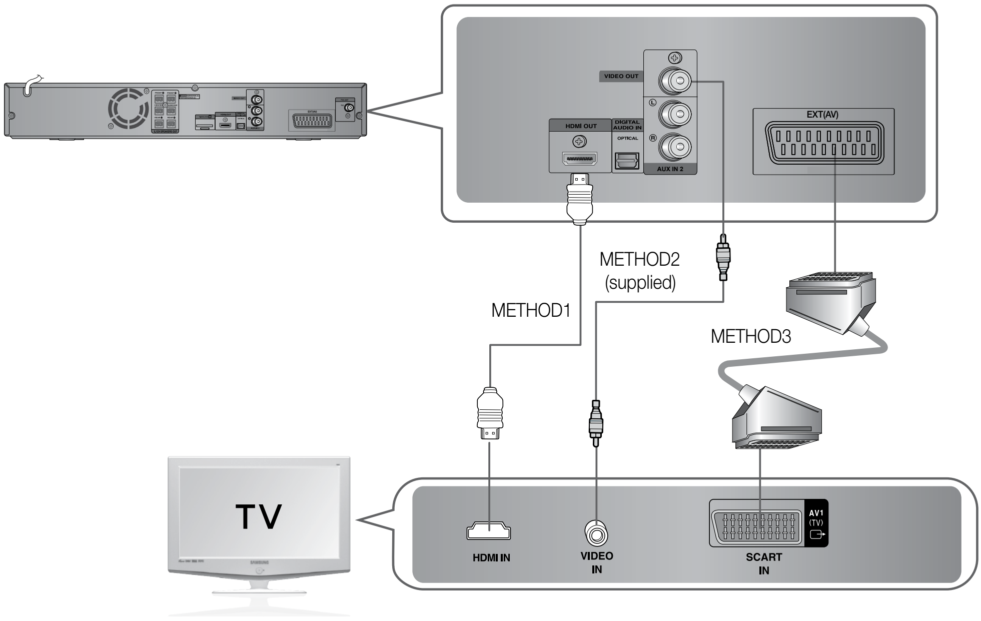
- **The HT-KZ420/TKZ422/TKZ425 only can connect with wireless receiving module (SWA-4100).**

- Place the wireless receiver module at the rear of the listening position. If the wireless receiver module is too close to the main unit, some sound interruption may be heard due to interference.
- If you use a device such as a microwave oven, wireless LAN Card, Bluetooth equipment, or any other device that uses the same frequency (2.4GHz) near the system, some sound interruption may be heard due to interference.
- The transmission distance from the main unit to the wireless receiving module is about 33 feet (10m), but may vary depending on your operating environment. If a steel-concrete wall or metallic wall is between the main unit and the wireless receiver module, the system may not operate at all, because the radio wave cannot penetrate metal.
- This product is also compatible with the wireless receiver module SWA-4000.
- If the main unit doesn't make wireless connection, the system needs ID Setting between main unit and wireless receiver module.With the main unit turned off, press remote control's number buttons "0"→"1"→"3"→"5" and main unit will turn on. With the wireless receiver module turned on, press "ID SET" button on the back of the wireless module for 5 seconds.

- Do not insert any other card except the provided TX card.
  If a different TX card is used, the product may be damaged or the card may not be removed easily.
- Do not insert the TX card upside down or in the reverse direction.
- Insert the TX card when the DVD Player is turned off. Inserting the card when it is turned on may cause a problem.
- If the TX Card is inserted and wireless receiving module setting is complete, sound is not output from the Rear Speaker connectors on the main unit.
- The wireless receiving antenna is built into the wireless receiver module. Keep the unit away from water and moisture.
- For optimal listening performance, make sure that the area around the wireless receiver module location is clear of any obstructions.
- **If no sound is heard from the wireless rear speakers, switch the mode to DVD 5.1 channel or Dolby ProLogic II .**
- In 2-CH mode, no sound will be heard from the wireless rear speakers.

# CONNECTING THE VIDEO OUT TO YOUR TV

Choose one of the three methods for connecting to a TV.



## METHOD 1 : HDMI

Connect the HDMI cable (not supplied) from the HDMI OUT jack on the back of the DVD Player to the HDMI IN jack on your TV.HDMI enables you to view movies in High Definition on your HDTV.

## METHOD 2 : Composite Video

Connect the supplied Video cable from the VIDEO OUT jack on the back of the DVD Player to the VIDEO IN jack on your TV.

## METHOD 3 : Scart

If your television is equipped with a SCART input, connect a SCART (not supplied) from the AV OUT jack on the back panel of the main unit to the SCART IN jack on your television.

**VIDEO SELECT Function**

Press and hold the **Number 0 (VIDEO SEL.)** button on the remote control for over 5 seconds.

- <COMPOSITE> or <RGB> will appear in the display. At this time, press the **Number 0 (VIDEO SEL.)** button shortly to select between <COMPOSITE> and <RGB>.
- If Scart (RGB Input) is equipped for your TV, press the **Number 0 (VIDEO SEL.)** button to select RGB mode.You can get a better picture quality by using Scart setting.
- If Scart (RGB Input) is not equipped for your TV, press the **Number 0 (VIDEO SEL.)** button to select COMPOSITE mode.

- Resolutions available for the HDMI output are 576p (480p), 720p,1080i/1080p.See page 29 for resolution setting.
- This product operates in Interlace scan mode 576i/480i for component output.
- If you use an HDMI cable to connect a Samsung TV to the DVD Player, you can operate the Home Cinema using the TV's remote control. This is only available with SAMSUNG TV's that support Anynet+(HDMI-CEC).
- If your TV has the Anynet+ HDMI-CEC logo, then it supports the Anynet+ function.
- When HDMI is on ,please don't pull HDMI cable out.

## HDMI Auto Detection Function

The player's video output will automatically change to HDMI mode when connecting an HDMI cable while power is on.

- **HDMI (High Definition Multimedia Interface)**
  HDMI is an interface that enables the digital transmission of video and audio data with just a single connector. Using HDMI, the DVD Home Cinema transmits a digital video and audio signal and displays a vivid picture on a TV having an HDMI input jack.
- **HDMI connection description**
  HDMI connector - Supports video and digital audio data.
  - HDMI outputs only a pure digital signal to the TV.
  - If your TV does not support HDCP (High-bandwidth Digital Content Protection), random noise appears on the screen.
- **Why does Samsung use HDMI?**
  Analogueue TV's require an Analogueue video/audio signal. However, when playing a DVD, the data transmitted to a TV is digital. Therefore either a digital-to-Analogueue converter (in the DVD Home Cinema) or an Analogueue-to-digital converter (in the TV) is required. During this conversion, the picture quality is degraded due to noise and signal loss. HDMI technology is superior because it requires no D/A conversion and is a pure digital signal from the player to your TV.
- **What is the HDCP?**
  HDCP (High-band width Digital Content Protection) is a system for protecting DVD content outputted via HDMI from being copied. It provides a secure digital link between a video source (PC, DVD. etc) and a display device (TV, projector. etc). Content is encrypted at the source device to prevent unauthorized copies from being made.
- **What is Anynet+?**
  Anynet+ is a convenient function that offers linked operation of this unit through Samsung TV's with the Anynet+ feature.
  - If your Samsung TV has an Anynet+ HDMI-CEC logo, then it supports the Anynet+ function.
  - If you turn on the player and insert a disc, the player will start playing the disc, and the TV will turn on automatically and switch to HDMI mode.
  - If you turn on the player and press the Play button with a disc already inserted, the TV will immediately turn on and switch to HDMI mode.

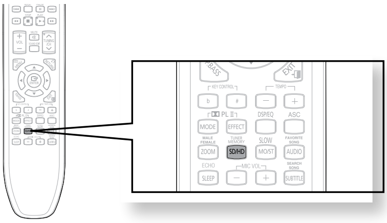
# HDMI FUNCTION

## Resolution Selection

This function allows the user to select the screen resolution for HDMI output.

In Stop mode, press and hold the **SD/HD** (Standard Definition/High Definition) button on the remote control until the resolution changes.

- Resolutions available for the HDMI output are 576p(480p), 720p, 1080i/1080p.
- SD(Standard Definition) resolution is 576p(480p) and HD (High Definition) resolution is 720p, 1080i/1080p.


KEY CONTROL
TEMPO
PL II
DSP/EQ
ASC
MODE
EFFECT
MALE FEMALE
TUNER MEMORY
SLOW
FAVORITE SONG
ZOOM
SD/HD
MO/ST
AUDIO
ECHO
MIC VOL
SEARCH SONG
SLEEP
SUBTITLE
EXIT

- ■ If the TV does not support the configured resolution, you will not be able to see the picture properly.
- ■ When a HDMI cable is connected, composite(Video) and component video signals are not output.
- ■ See your TV owner's manual for more information on how to select the TV's Video Input source.

**Why use HDMI (High Definition Multimedia Interface)?**

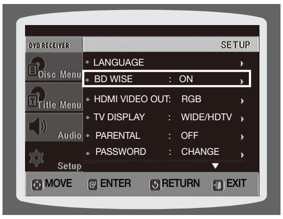
This device transmits a DVD video signal digitally without the process of converting to Analogueue. You will get sharper digital pictures when using an HDMI connection.

## BD Wise (Samsung products only)

You can select to use the BD Wise menu only if the Samsung home theater is connected to a Samsung TV that supports BD Wise using an HDMI cable.

- **What is BD Wise?**
  BD Wise automatically adjusts BD Wise-compliant Samsung products to the optimal settings between them. This feature is enabled only if BD Wise-compliant Samsung products are connected to each other using an HDMI cable.
- **To use BD Wise**
  1. Use an HDMI cable to connect the Samsung home theater to a BD Wise-compliant Samsung TV.
  2. Set each BD Wise menu of the Samsung home theater and the Samsung TV to On, respectively.
     - This will optimize the picture quality according to the content (In the disc, DVD, etc) that you want to play.
     - This will also optimize the picture quality between the home theater and your BD Wise-compliant Samsung TV.

- ■ If you want to change the resolution in BD Wise mode, you must set BD mode to Off in advance.
- ■ If you set the BD Wise mode to off, the resolution of the connected TV will be adjusted to its maximum resolution automatically.
- ■ BD Wise will be disabled if the player is connected to a device that does not support BD Wise.


DVD RECEIVER
SETUP
Disc Menu
Title Menu
Audio
Setup
LANGUAGE
MOVE
ENTER
RETURN
EXIT

BD WISE : ON
HDMI VIDEO OUT: RGB
TV DISPLAY : WIDE/HDTV
PARENTAL : OFF
PASSWORD : CHANGE

# HDMI FUNCTION

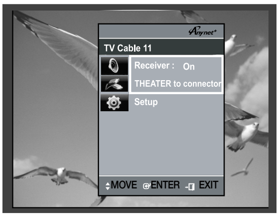
## Using Anynet+(HDMI-CEC)

Anynet+ is a function that enables you to control other Samsung Devices with your Samsung TV's remote control. Anynet + can be used by connecting this Home Cinema to a SAMSUNG TV using a HDMI Cable. This is only available with SAMSUNG TVs that support Anynet+.

1. Connect the main unit of the Home Cinema to a Samsung TV with an HDMI cable. (See page 27)
2. Set the Anynet+ function on your TV.
   (See the TV instruction manual for more information.)
   - You can operate the Home Cinema by using the TV remote control. (Available TV buttons : ⏪, ■, ▶, ⏩, ▲,▼ and ◀,▶ buttons,⓪ ~ ⑨ button)

**With Anynet+**

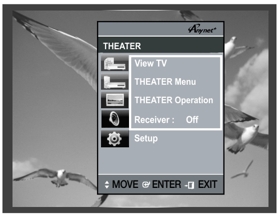
You can operate this unit, power on your TV, or watch a movie by pressing the Play button on your Samsung TV's remote control.



### If you select the TV

Set the Anynet+(HDMI-CEC) to On by pressing the Anynet+ button on your TV remote control.

- **Receiver : On** : You can listen to audio through the Home Cinema.
- **Receiver : Off** : You can listen to audio through the TV.



### If you select the THEATER

Select **THEATER to connect** and set the option of each item below.

- **View TV** : If anynet+(HDMI CEC) is set to on and you select View TV, the home cinema will automatically switch to digital in mode.
- **Theater Menu** : You can access and control the Home cinema menu.
- **Theater Operation** : The Home Cinema disc playback information will be displayed. You can control the Disc operation of the Home Cinema such as title, chapter and subtitle change.
- **Receiver : On** : You can listen to audio through the Home Cinema.
- **Receiver : Off** : You can listen to audio through the TV.

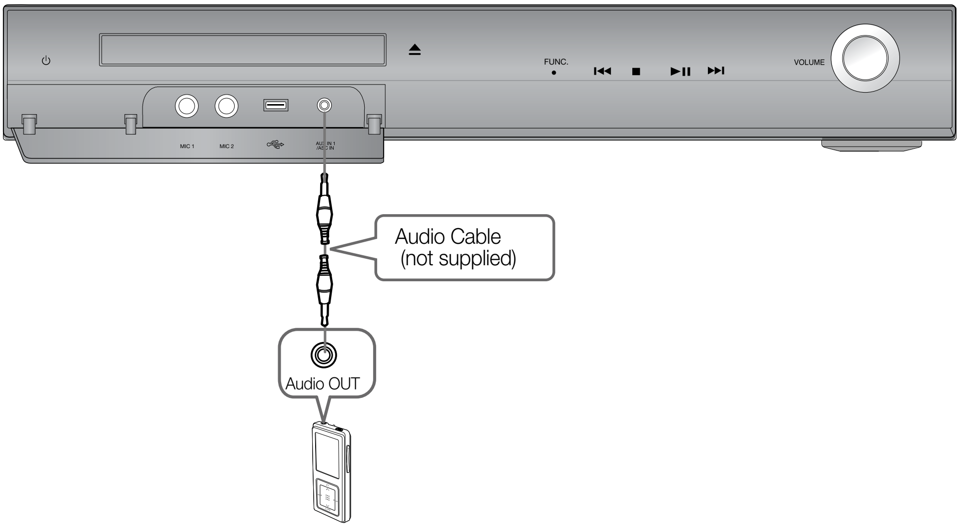
---

- In case that you choose 'View TV', if you want to listen to TV sound through Digital In, you have to connect the optical cable between the TV and the Home Theater.

# CONNECTING AUDIO FROM EXTERNAL COMPONENTS

## AUX1 : Connecting an External Component/MP3 player

Components such as an MP3 Player.

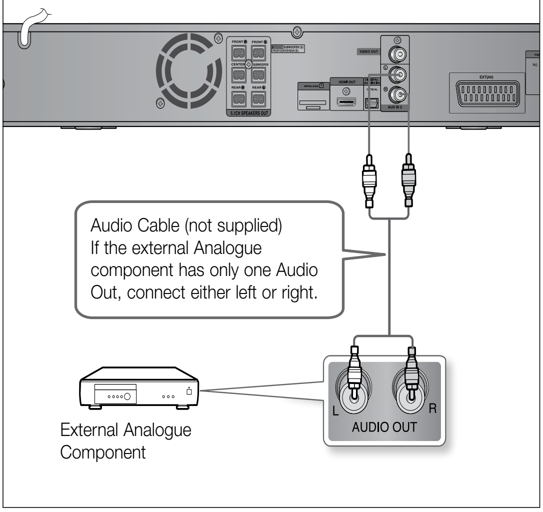

FUNC.
VOLUME
MIC 1
MIC 2
AUX IN 1
/ASC IN
Audio Cable
(not supplied)
Audio OUT

1. Connect AUX IN 1 (Audio) on the Home Cinema to the Audio Out of the external component/MP3 player.

2. Press the **AUX** button on the remote control to select **AUX1** input.
   - You can also use the **FUNCTION** button on the main unit.
     The mode switches as follows :
     **DVD/CD → D.IN → AUX 1 → AUX 2 → USB → B/T → FM**.

# connections

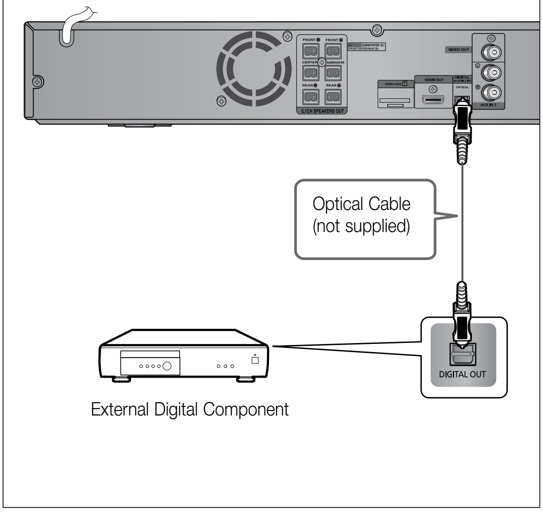
AUX2 : Rear Panel



Audio Cable (not supplied)
If the external Analogue component has only one Audio Out, connect either left or right.

External Analogue Component

OPTICAL : Rear Panel



Optical Cable (not supplied)

External Digital Component

## AUX2 : Connecting an External Analogue Component

Analogue signal components such as a VCR.

1. Connect AUX IN 2 (Audio) on the Home Cinema to the Audio Out of the external Analogue component.
   - Be sure to match connector colours.

2. Press the **AUX** button on the remote control to select **AUX 2** input.
   - You can also use the **FUNCTION** button on the main unit.
     The mode switches as follows :
     **DVD/CD → D.IN → AUX 1 → AUX 2 → USB → B/T → FM**.

- You can connect the Video Output jack of your VCR to the TV, and connect the Audio Output jacks of the VCR to this product.

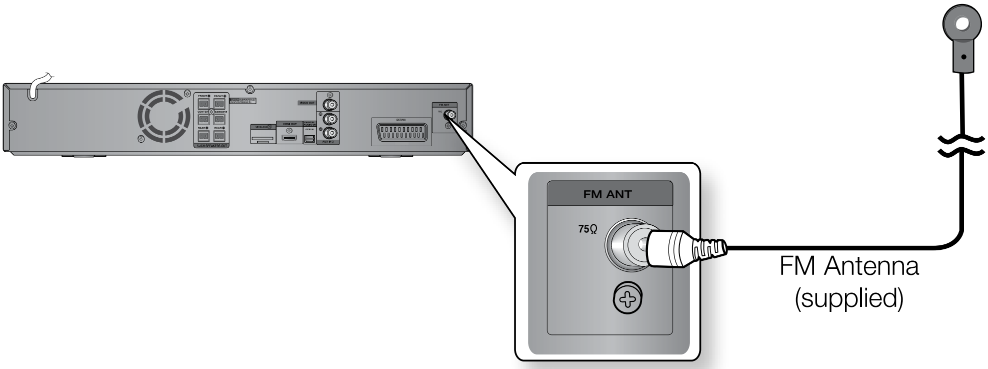
## OPTICAL : Connecting an External Digital Component

Digital signal components such as a Cable Box/Satellite receiver (Set-Top Box).

1. Connect the Digital Input (OPTICAL) on the Home Cinema to the Digital Output of the external digital component.
2. Press the **AUX** button on the remote control to select **DIGITAL IN**.
   - You can also use the **FUNCTION** button on the main unit to select **D-IN**.
     The mode switches as follows :
     **DVD/CD → D.IN → AUX 1 → AUX 2 → USB → B/T → FM**.

# CONNECTING THE FM ANTENNA

1. Connect the FM antenna supplied to the FM 75Ω COAXIAL Jack.
2. Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.

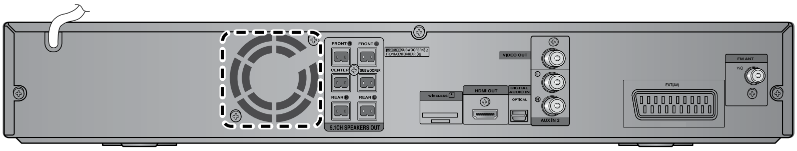

FM ANT
75Ω
FM Antenna
(supplied)

- This unit does not receive AM broadcasts.

## Cooling Fan

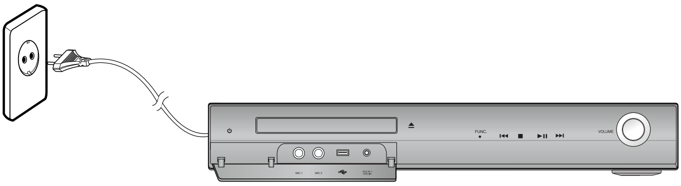
The cooling fan supplies cool air to the unit to prevent overheating.
Please observe the following cautions for your safety.

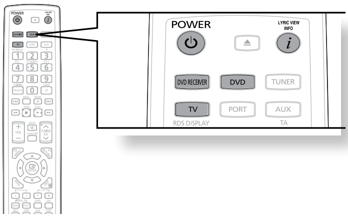
- Make sure the unit is well-ventilated. If the unit has poor ventilation, the temperature inside the unit may rise and may damage it.
- Do not obstruct the cooling fan or ventilation holes. (If the cooling fan or ventilation holes are covered with a newspaper or cloth, heat may build up inside the unit and fire may result.)


FRONT
FRONT
CENTER
SUBWOOFER
REAR
REAR
5.1CH SPEAKERS OUT
VIDEO OUT
WIRELESS
HDMI OUT
DIGITAL AUDIO IN
OPTICAL
AUX IN 2
EXT(R)
FM ANT
75Ω

The DVD Home Cinema's remote can be used to control Samsung TV's.

1. Plug the main unit's power cord into the AC power supply.


FUNC.
VOLUME


POWER
LYRIC VIEW
INFO
DVD RECEIVER
DVD
TUNER
TV
PORT
AUX
RDS DISPLAY
TA

2. Press the **DVD RECEIVER** button to operate the DVD Home Cinema.

3. Press the **FUNCTION** button on the main unit or **DVD** button on the remote to enable DVD/CD playback.

4. Press the **TV** button to set the remote to TV mode.

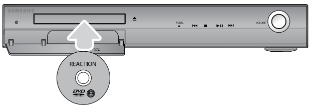
5. Press the **POWER** button to turn on your Samsung TV with this remote.

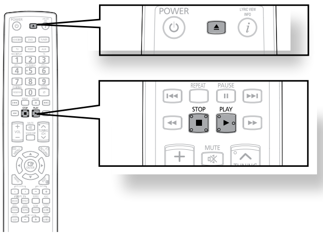
6. Press the **CURSOR** button to select VIDEO mode on your TV.

# DISC PLAYBACK

DVD CD

1. Press the **OPEN/CLOSE** (⏏) button to open the disc tray.
2. Load a disc.
   - Place a disc gently into the tray with the disc's label facing up.
3. Close the compartment by pressing the **OPEN/CLOSE** (⏏) button again.
   - Playback starts automatically.





### To stop playback, press the STOP (⊡) button during playback.

- If pressed once, **PRESS PLAY** is displayed and the stop position will be stored in memory. If the **PLAY** (⊙) button or **ENTER** button is pressed, playback resumes from the stop position. (This function works only with DVDs.)
- If pressed twice, **STOP** is displayed, and if the **PLAY** (⊙) button is pressed, playback starts from the beginning.

### To temporarily pause playback, press the PAUSE (⏸) button during playback.

- To resume playback, press the **PLAY** (⊙) button.

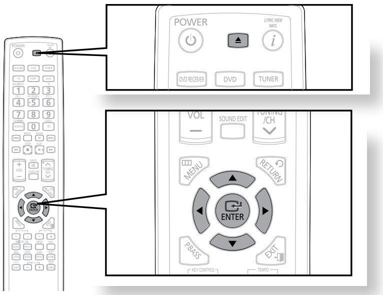
- ▪ The initial screen may appear different, depending on the content of the disc.
- ▪ Pirated discs will not run in this player because it violates the CSS (Content Scrambling System : a copy protection system) recommendations.

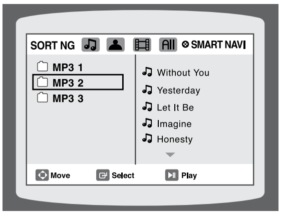
## MP3/WMA-CD PLAYBACK

Data CDs (CD-R, CD-RW) encoded in MP3/WMA format can be played.

MP3

1. Place the MP3/WMA disc on the disc tray.
   - The MP3/WMA menu screen will appear and playback will start.
   - The appearance of the menu depends on the MP3/WMA disc.
   - WMA-DRM files cannot be played.
2. In Stop mode, use the Cursor ▲,▼,◀,▶ button to select the album, and then press the **ENTER** button.
   - Use the Cursor ▲,▼ button to select the track.
3. To change the album, use the Cursor ▲,▼,◀,▶ button to select another album in Stop mode, and then press the **ENTER** button.
4. Press the **STOP** (■) button to stop playback.

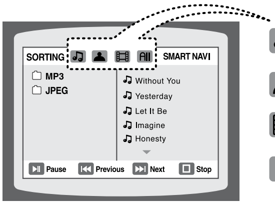

POWER
DVD RECEIVER
DVD
TUNER
VOL
SOUND EDIT
TUNING /CH
MENU
RETURN
ENTER
P.BASS
EXIT


SORT NG
All
SMART NAVI
MP3 1
MP3 2
MP3 3
Without You
Yesterday
Let It Be
Imagine
Honesty
Move
Select
Play

- Depending on the recording mode, some MP3/WMA-CDs may not play.
- Table of contents of a MP3-CD varies depending on the MP3/WMA track format recorded on the disc.

### To play a file icon in the screen,

- **Press the Cursor ▲,▼,◀,▶ button when it is in Stop mode and select a desired icon from the top part of the menu.**


SORTING
All
SMART NAVI
MP3
JPEG
Without You
Yesterday
Let It Be
Imagine
Honesty
Pause
Previous
Next
Stop

♫ **Music File Icon** : To play music files only, select the ♫ Icon.

👤 **Image File Icon** : To view image files only, select the 👤 Icon.

🎞 **Movie File Icon** : To view movie files only, select the 🎞 Icon.

All **All File Icon** : To view all files select the All Icon.

# JPEG FILE PLAYBACK

Images captured with a digital camera or camcorder, or JPEG files on a PC can be stored on a CD and then played back with this Home Cinema.

## Slide Mode

JPEG

Place the JPEG disc on the disc tray.

- Playback starts automatically.
  Each image is displayed for 5 seconds and then the next image is displayed.

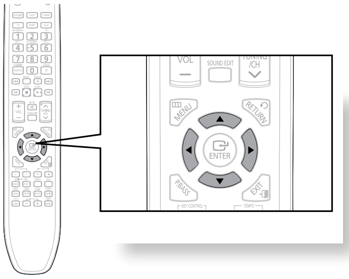
Press the ⏮,⏭ button to skip to the next slide.

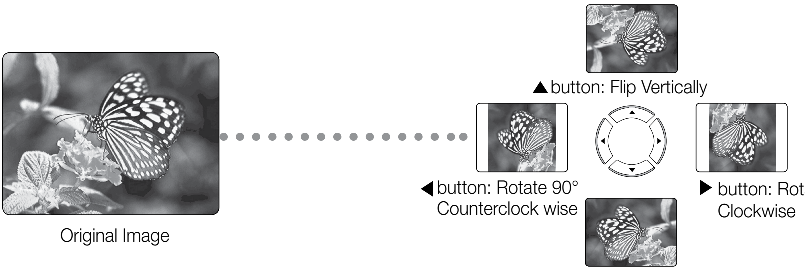
- Each time the button is pressed, the slide moves backward or forward.

## Rotate/Flip Function

JPEG

Press the Cursor ▲,▼,◀,▶ button during playback.


VOL
SOUND EDIT
TUNING /CH
MENU
RETURN
ENTER
P.BASS
EXIT
KEY CONTROL
TEMPO


Original Image
▲button: Flip Vertically
◀ button: Rotate 90° Counterclock wise
▶ button: Rotate 90° Clockwise
▼button: Flip Horizontally

- The maximum resolutions supported by this product are 5120 x 3480 (or 19.0 MPixel) for standard JPEG files and 2048 x 1536 (or 3.0 MPixel) for progressive image files.

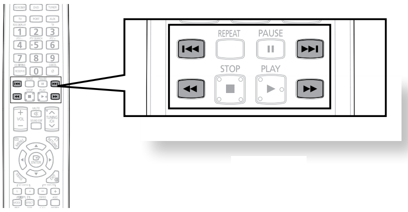
## DIVX PLAYBACK

The functions on this page apply to DivX disc playback.

### Skip Forward/Back

During playback, press the ⏮,⏭ button.

- Goes to the next file whenever you press the ⏭ button,
  if there are 2 files or more on the disc.
- Goes to the previous file whenever you press the ⏮ button, if there are 2 files or more on the disc.


REPEAT
PAUSE
STOP
PLAY

### Forward/Reverse Search

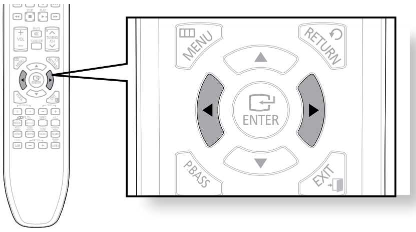
To play back the disc at a faster speed, press the ◀◀ or ▶▶ button during playback.

- Each time you press either button, the playback speed will change as follows:
  **2x → 4x → 8x → 32x → Normal**.

### 5 Minute Skip function

During playback, press the Cursor ◀,▶ button.

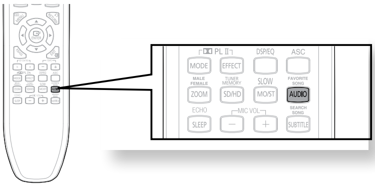
- Playback skips 5 minutes forward whenever you press the Cursor ▶ button.
- Playback skips 5 minutes back whenever you press the Cursor ◀ button.


MENU
RETURN
ENTER
P.BASS
EXIT

### Audio Display

Press the **AUDIO** button.

- If there are multiple audio languages on a disc, you can toggle between them.
- Each time you press the button, your selection will toggle between **AUDIO (1/N, 2/N ...)** and ✋.

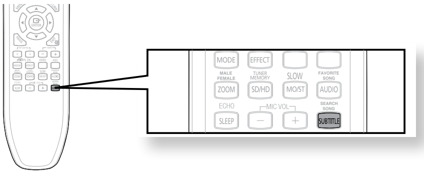

PL II
DSP/EQ
ASC
MODE
EFFECT
MALE FEMALE
TUNER MEMORY
SLOW
FAVORITE SONG
ZOOM
SD/HD
MO/ST
AUDIO
ECHO
MIC VOL
SEARCH SONG
SLEEP
SUBTITLE

- ■ ✋ is displayed when there is one supported language in the disc.

### Subtitle Display

Press the **SUBTITLE** button.

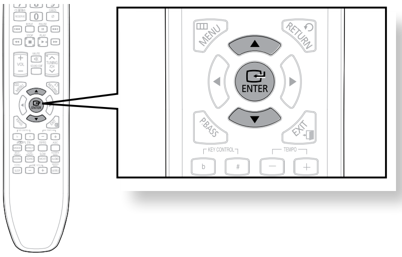
- Each time you press the button, your selection will toggle between **SUBTITLE (1/N, 2/N ...)** and **SUBTITLE OFF**.
- If the disc has only one subtitle file, it will be played automatically.
- See number 2 (Caption Function) on the next page for more details concerning Subtitle usage with DivX discs.


MODE
EFFECT
MALE FEMALE
TUNER MEMORY
SLOW
FAVORITE SONG
ZOOM
SD/HD
MO/ST
AUDIO
ECHO
MIC VOL
SEARCH SONG
SLEEP
SUBTITLE

## If the Disc has more than One Subtitle File

If the disc has more than one subtitle file, the default subtitle may not match the movie and you will have to select your subtitle language as follows:

1. In Stop mode, press the Cursor ▲,▼ button, select the desired subtitle (▭) from the TV screen, and then press the **ENTER** button.
2. When you select the desired DivX file from the TV screen, the movie will be played normally.



## DivX(Digital internet video eXpress)

DivX is a video file format developed by Microsoft and is based on MPEG4 compression technology to provide audio and video data over the Internet in real-time.

MPEG4 is used for video encoding and MP3 for audio encoding so that the users can watch a movie at near DVD-quality video and audio.

1. **Supported Formats**

   This product only supports the following media formats.If both video and audio formats are not supported, you may experience problems such as broken images or no sound.

   **Supported Video Formats**

| Format | AVI | WMV |
|---|---|---|
| Supported Versions | DivX3.11~DivX5.1, XviD | V1/V2/V3/V7 |

   **Supported Audio Formats**

| Format | MP3 | WMA | AC3 | DTS |
|---|---|---|---|---|
| Bit Rate | 80~384kbps | 56~128kbps | 128~384kbps | 1.5Mbps |
| Sampling Frequency | 44.1khz | | 44.1/48khz | 44.1khz |

   - DivX files, including audio and video files, created in the DTS format can only support up to 6Mbps.
   - Aspect Ratio : Although the default DivX resolution is 640x480 pixels, this product supports up to 800x600 pixels. TV screen resolutions higher than 800 will not be supported.
   - When you play a disc whose sampling frequency is higher than 48khz or 320kbps, you may experience shaking on the screen during playback.

2. **Caption Function**
   - You must have some experience with video extraction and editing in order to use this feature properly.
   - To use the caption function, save the caption file (*.smi) in the same file name as that of the DivX media file (*.avi) within the same folder.
     Example. Root Samsung_007CD1.avi
     Samsung_007CD1.smi
   - Up to 60 alphanumeric characters or 30 East Asian characters (2 byte characters such as Korean and Chinese) for the file name.

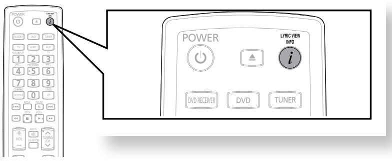
# USING THE PLAYBACK FUNCTION

## Displaying Disc Information

DVD CD MP3 JPEG DivX

You can view disc playback information  on the TV screen.

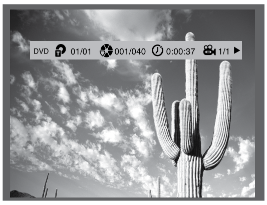
Press the **LYRIC VIEW INFO** button.


POWER
LYRIC VIEW INFO
DVD RECEIVER
DVD
TUNER

- Depending on the disc, the disc information display may appear different.
- Depending on the disc, you can also select DTS, DOLBY DIGITAL, or PRO LOGIC.

**✋ appears on the TV screen!**

If this symbol appears on the TV screen when pressing a button, that operation is not possible with the disc currently being played.


DVD 01/01 001/040 0:00:37 1/1 ▶

## Forward/Reverse Search

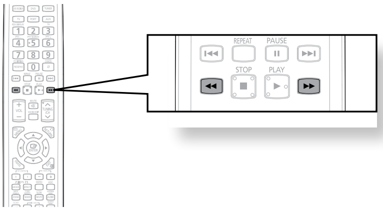
DVD CD MP3 DivX

Press the ◀◀,▶▶ button.

• Each time the button is pressed during playback, the playback speed changes as follows:

◀◀ 2X → ◀◀ 4X → ◀◀ 8X → ◀◀ 32X → ▶ PLAY

▶▶ 2X → ▶▶ 4X → ▶▶ 8X → ▶▶ 32X → ▶ PLAY


REPEAT
PAUSE
STOP
PLAY

- During fast playback of a CD or MP3-CD, sound is heard only at 2x speed, and not at 4x, 8x, and 32x speeds.

## Slow Playback

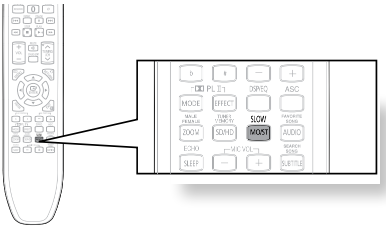
DVD DivX

Press the **SLOW** button.

- Each time the button is pressed during playback, the playback speed changes as follows:

DVD I▶1/2 →I▶1/4 →I▶1/8 →◀I1/2 →◀I1/4 →◀I1/8 → ▶ PLAY

DivX I▶1/2 →I▶1/4 →I▶1/8 → ▶ PLAY


PL II
DSP/EQ
ASC
MODE
EFFECT
ZOOM
SD/HD
SLOW
MO/ST
AUDIO
ECHO
MIC VOL
SLEEP
SUBTITLE

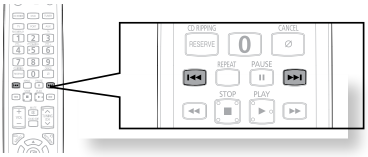
- No sound is heard during slow playback.
- Reverse slow playback does not work with DivX.

## Skipping Scenes/Songs

DVD MP3

Press the ⏮,⏭ button.

- Each time the button is pressed during playback, the previous or next chapter, track or directory (file) will be played.
- You cannot skip chapters consecutively.


CD RIPPING
CANCEL
RESERVE
0
REPEAT
PAUSE
STOP
PLAY

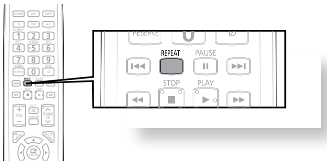
## Repeat Playback

DVD CD MP3 JPEG DivX

Repeat playback allows you to repeatedly play a chapter, title, track (song), or directory (MP3 file).

Press the **REPEAT** button.

- When karaoke disc is played,repeat function is not available.
- Each time the button is pressed during playback, the repeat playback mode changes as follows:


RESERVE
REPEAT
PAUSE
STOP
PLAY

DVD-VIDEO REPEAT : CHAPTER → REPEAT : TITLE → REPEAT : OFF

CD REPEAT : TRACK → REPEAT : DISC → REPEAT : OFF

MP3 JPEG DivX REPEAT : RANDOM → REPEAT : TRACK → REPEAT : DIR → REPEAT : DISC → REPEAT : OFF

# USING THE PLAYBACK FUNCTION

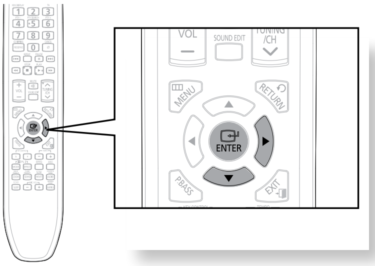
## Repeat Playback Options

**CHAPTER** : Repeatedly plays the selected chapter.
**TITLE** : Repeatedly plays the selected title.
**RANDOM** : Plays tracks in random order. (A track that has already been played may be played again.)
**TRACK** : Repeatedly plays the selected track.
**DIR** : Repeatedly plays all tracks in the selected folder.
**DISC** : Repeatedly plays the entire disc.
**OFF** : Cancels Repeat Playback.

## To Select a Repeat Playback Mode in the Disc Information Screen

DVD CD

1. Press the **LYRIC VIEW INFO** button twice.
2. Press the Cursor ▶ button to move to REPEAT PLAYBACK (⟳) display.
3. Press the Cursor ▼ button to select the desired Repeat Playback mode.
   - To select another album and track, repeat Steps 2 and 3 above.
4. Press the **ENTER** button.



DVD **OFF → A- → CHAP → TITLE → OFF**

CD **OFF → A- → TRACK → DISC → OFF**

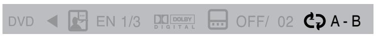
- For DivX, MP3 and JPEG discs, you cannot select Repeat Play from the information display screen.

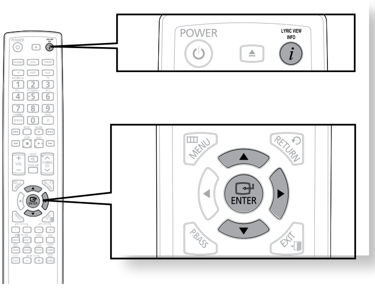
## A-B Repeat Playback

DVD

You can repeatedly play back a designated section of a DVD or CD.

1. Press the **LYRIC VIEW INFO** button twice.
2. Press the Cursor ▶ button to move to REPEAT PLAYBACK (⟳) display.
3. Press the Cursor ▲,▼ button to select **A-** and then press the **ENTER** button.
   - When the **ENTER** button is pressed, the selected position will be stored in memory.
4. Press the **ENTER** button at the end of the desired segment.
   - The specified segment will be played repeatedly.


DVD ◀ EN 1/3 DOLBY DIGITAL OFF/ 02 ⟳ A - B



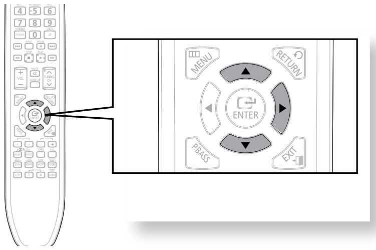
➢ To return to normal playback, press the Cursor ▲,▼ button to select ⟳ OFF.

- The A-B Repeat function does not operate with DivX, MP3 or JPEG discs.

## Angle Function

This function allows you to view the same scene in different angles.

1. Press the **LYRIC VIEW INFO** button.
2. Press the Cursor ▶ button to move to ANGLE ( 🎥 ) display.
3. Press the Cursor ▲,▼ button or numeric buttons to select the desired angle.
   - Each time the button is pressed, the angle changes as follows:


MENU
RETURN
ENTER
P.BASS
EXIT

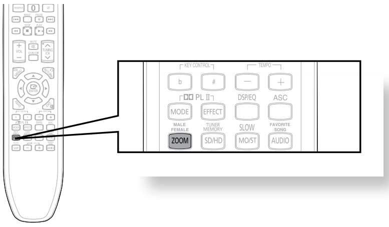
🎥 1/3 → 🎥 2/3 → 🎥 3/3 → 🎥 1/3

- The Angle function works only with discs on which multiple angles have been recorded.

## Zoom (Screen Enlarge) Function

This function allows you to enlarge a particular area of the displayed image.

1. Press the **ZOOM** button.
2. Press the Cursor ▲,▼,◀,▶ button to move to the area you want to enlarge.
3. Press the **ENTER** button.
   - Each time the button is pressed, the zoom level changes as follows:


KEY CONTROL
TEMPO
PL II
DSP/EQ
ASC
MODE
EFFECT
MALE FEMALE
TUNER MEMORY
SLOW
FAVORITE SONG
ZOOM
SD/HD
MO/ST
AUDIO

ZOOM X 1.5 →ZOOM X 2 →ZOOM X 3 →ZOOM OFF

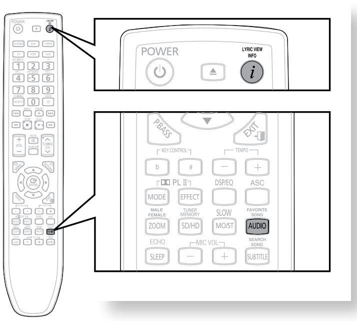
SELECT ZOOM POSITION

## Audio Language Selection Function

DVD

1. Press the **LYRIC VIEW INFO** button twice.
2. Press the Cursor ▲,▼ button or numeric buttons to select the desired audio language.
   - Depending on the number of languages on a DVD disc, a different audio language (ENGLISH, SPANISH, FRENCH, etc.) is selected each time the button is pressed.

   EN 1/3 → SP 2/3 → FR 3/3 → EN 1/3

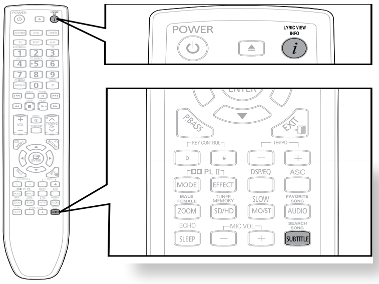

POWER
LYRIC VIEW INFO
P.BASS
EXIT
KEY CONTROL
TEMPO
PL II
DSP/EQ
ASC
MODE
EFFECT
MALE FEMALE
TUNER MEMORY
SLOW
FAVORITE SONG
ZOOM
SD/HD
MO/ST
AUDIO
ECHO
MIC VOL
SEARCH SONG
SLEEP
SUBTITLE

## Subtitle Language Selection Function

DVD

1. Press the **LYRIC VIEW INFO** button twice.
2. Press the Cursor ▶ button to move to **SUBTITLE** (▭) display.
3. Press the Cursor ▼ button or numeric buttons to select the desired subtitle.

   EN 01/03 → SP 02/03 → FR 03/03 → OFF/03 → EN 01/03

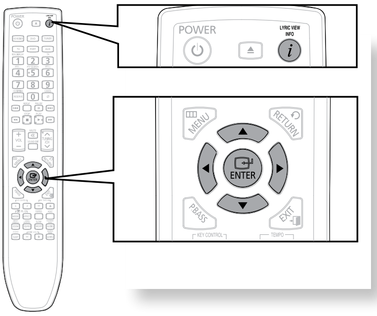

POWER
LYRIC VIEW INFO
ENTER
P.BASS
EXIT
KEY CONTROL
TEMPO
PL II
DSP/EQ
ASC
MODE
EFFECT
MALE FEMALE
TUNER MEMORY
SLOW
FAVORITE SONG
ZOOM
SD/HD
MO/ST
AUDIO
ECHO
MIC VOL
SEARCH SONG
SLEEP
SUBTITLE

- To operate this function, you can also press the AUDIO or SUBTITLE buttons on the remote control.
- Depending on the disc, the Subtitle and Audio Language functions may not be available.

## Moving Directly to a Scene/Song

DVD CD MP3 JPEG

DVD CD

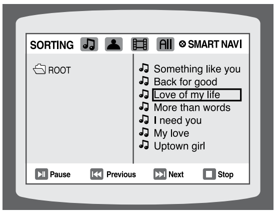

POWER
LYRIC VIEW INFO
MENU
RETURN
ENTER
P.BASS
EXIT
KEY CONTROL
TEMPO

1. Press the **LYRIC VIEW INFO** button.
2. Press the Cursor ▲,▼ button or numeric buttons to select the desired title/track (T) and then press the **ENTER** button.
3. Press the Cursor ◀,▶ button to move to the Chapter (✿) display.
4. Press the Cursor ▲,▼ button or numeric buttons to select the desired chapter and then press the **ENTER** button.
5. Press the Cursor ◀,▶ button to move to time (⏱) display.
6. Press the numeric buttons to select the desired time and then press the **ENTER** button.

## Moving Directly to a Scene/Song

DVD CD MP3 JPEG

MP3 JPEG


SORTING
All
SMART NAVI
ROOT
Something like you
Back for good
Love of my life
More than words
I need you
My love
Uptown girl
Pause
Previous
Next
Stop

Press the **numeric** buttons.

- The selected file will be played.
- When playing an MP3 or JPEG disc, you cannot use the Cursor ▲,▼ button to move to a folder.
  To move a folder, press the **STOP** (■) and then press the Cursor ▲,▼ button.

- You can press the ⏮,⏭ button on the remote control to move directly to the desired title, chapter, or track.
- Depending on the disc, you may not be able to move to the selected title or time.

# USING THE PLAYBACK FUNCTION

## Using the Disc Menu

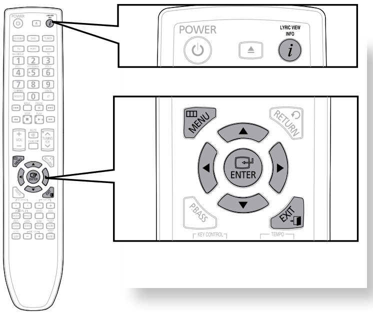
DVD

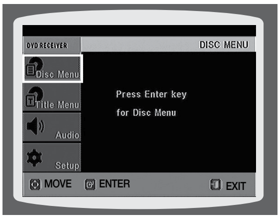
You can use the menus for the audio language, subtitle language, profile, etc.

DVD menu contents differ from disc to disc.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▲,▼ button to move to **Disc Menu** and then press the **ENTER** button.
   - When you select Disc Menu and it is not supported by the disc, the "**This menu is not supported**" message appears on the screen.
3. Press the Cursor ▲,▼,◀,▶ button to select the desired item.
4. Press the **ENTER** button.

➣ **Press the EXIT button to exit the setup screen.**


POWER
LYRIC VIEW INFO
MENU
RETURN
ENTER
P.BASS
EXIT
KEY CONTROL
TEMPO


DVD RECEIVER
DISC MENU
Disc Menu
Title Menu
Audio
Setup
MOVE
ENTER
EXIT

Press Enter key
for Disc Menu

- The disc menu display may be different depending on the disc.

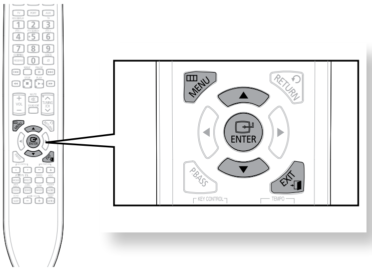
## Using the Title Menu

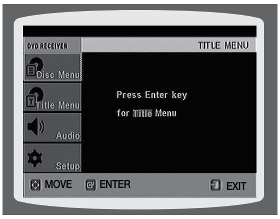
DVD

For DVDs containing multiple titles, you can view the title of each movie. Depending on the disc, the availability of this feature may vary.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▲,▼ button to move to **Title Menu**.
3. Press the **ENTER** button.
   - The title menu appears.

➣ **Press the EXIT button to exit the setup screen.**


MENU
RETURN
ENTER
P.BASS
EXIT
KEY CONTROL
TEMPO


DVD RECEIVER
TITLE MENU
Disc Menu
Title Menu
Audio
Setup
MOVE
ENTER
EXIT

Press Enter key
for Title Menu

- The Title menu display may be different depending on the disc.

# USING BLUETOOTH

You can use a Bluetooth device to enjoy music with high quality stereo sound, all without wires!

## What is Bluetooth?

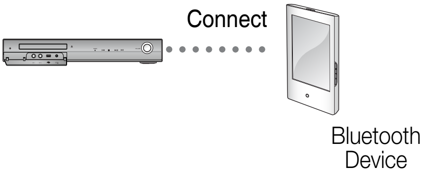
**Bluetooth is a new technology that enables Bluetooth-compliant devices to easily interconnect with each other using a short wireless connection.**

- A Bluetooth device may cause a noise or malfunction, depending on usage.
  - When a part of the body is in contact with the receiving/transmitting system of the Bluetooth device or the Home Cinema System.
  - Electrical variation from electrical jamming by the wall, corner or office partitioning.
  - Electrical interference from the same frequency-band devices including medical equipment, microwave oven and wireless LAN.
- Pair the Home Cinema System with the Bluetooth device while maintaining a close distance.
- The further the distance is between Home Cinema System and Bluetooth device, the worse the quality. If the distance exceeds the Bluetooth operational range, the connection is lost.
- In poor reception-sensitivity areas, the Bluetooth connection may not work properly.
- The Home Cinema System has an effective reception range of up to 10 m in all directions if there are no obstacles. The connection will be automatically cut off if the distance is out of this range. Even within this range, the sound quality may be deteriorated by obstacles such as walls or doors.

## To connect the Home Cinema System to a bluetooth device

**Check if the Bluetooth device supports the Bluetooth-compliant stereo headset function.**

1. Press the **FUNCTION** button on the front panel of the home cinema system repeatedly until the "**B/T**" appears.
   - The mode switches as follows :
     **DVD/CD → D.IN → AUX 1 → AUX 2 → USB**
     **→ B/T → FM**.
   - You will see "**WAIT**" for 2 seconds and then "**READY**" on the front display of the Home Theater System.
2. Select the Bluetooth menu on the Bluetooth device you want to connect. (refer to Bluetooth device's user manual)
3. Select a Stereo headset menu on the Bluetooth device.
   - You will see a list of scanned devices.
4. Select "**Samsung Home Theater**" from the searched list.
   - When the Home Cinema System is connected to the Bluetooth device, the Home Cinema System will display "**Connect**" on the front display, followed by the name of the connected Bluetooth device.
   - The Home Cinema System connection is complete.



5. Play music on the connected device.
   - You can listen to the music playing on the connected Bluetooth device over the home cinema system.

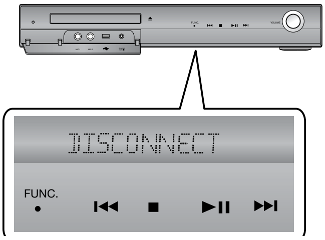
---

- You may be required to enter a PIN code(password) when connecting the Bluetooth device to the home cinema system. If the PIN code input window appears, enter <0000>.
- The Home Cinema System may control play related function  only when connected device supports the function.
- If connected device dose not support some play related function, the Home Cinema System can't control the device.
- The Home Cinema System only supports Middle Quality SBC data(up to 237kbps@48kHz), and does not support High Quality SBC data(328kbps@44.1kHz).

## To disconnect the Bluetooth device from the Home Cinema System

You can disconnect the Home Cinema System from the Bluetooth device (refer to Bluetooth devices' user manual).

- The Home Cinema System will be disconnected.
- When the Home Cinema System is disconnected from the Bluetooth device, the Home Cinema System will display "**DISCONNECT**" on the front display.



## To disconnect the Home Cinema System from the Bluetooth device

Press the **FUNCTION** button on the front panel of the home cinema system to switch from "**BT AUDIO**" to another mode.

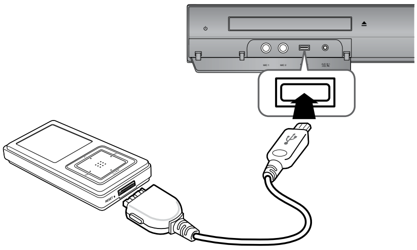
- The bluetooth device connected will wait a certain time for response from the home cinema system before terminating the connection. (Time to disconnection may differ, depending on the bluetooth device)
- The currently connected device will be disconnected.

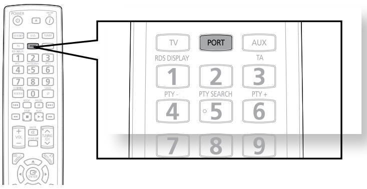
- In Bluetooth connection mode, the Bluetooth connection will be lost if the distance between the Home Cinema System and the Bluetooth device exceeds 10 m.
  If the distance is returned to the effective range or you restart the Bluetooth device, the Bluetooth connection can be restored.
- With some bluetooth devices, some functions may not work properly.
- The DOLBY PRO LOGIC II modes do not work in Bluetooth connection mode.

# PLAYING MEDIA FILES USING THE USB HOST FEATURE

You can enjoy media files such as pictures, movies and music saved on an MP3 player, USB memory stick or digital camera in high quality video with 5.1 channel Home Cinema sound by connecting the storage device to the USB port of the Home Cinema.

1. Connect the USB device to the USB port on the front of the unit.
2. Press the **FUNCTION** button on the DVD Player or the **PORT** button on the remote control to select the USB mode.
   - **USB** appears on the display screen and then disappears.
   - The USB MENU screen appears on the TV screen and the saved file is played.
3. To stop playback, press the **STOP** (■) button.

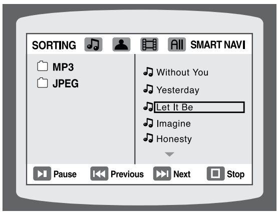



TV
PORT
AUX
RDS DISPLAY
TA
1
2
3
PTY -
PTY SEARCH
PTY +
4
5
6
7
8
9

## Safe PORT Removal

To prevent damage to the memory stored in the USB device,
perform safe removal before disconnecting the USB cable.

- Press the **STOP** (■) button twice in a row.
  The display will show **REMOVE USB**.
- Remove the USB cable.

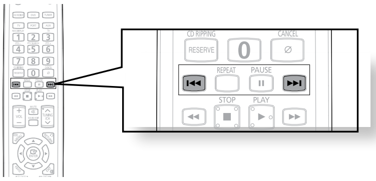

SORTING
All
SMART NAVI
MP3
JPEG
Without You
Yesterday
Let It Be
Imagine
Honesty
Pause
Previous
Next
Stop

- To listen to your music files with 5.1 channel home cinema sound, you must set the Dolby Pro Logic II mode to Matrix. (See page 59)
- In USB mode, you are not able to change the resolution or use the SETUP menu if there is no USB device connected to the USB port.

## Skip Forward/Back

During playback, press the ⏮,⏭ button.

- When there is more than one file and you press the ⏭ button, the next file is selected.
- When there is more than one file and you press the ⏮ button, the previous file is selected.

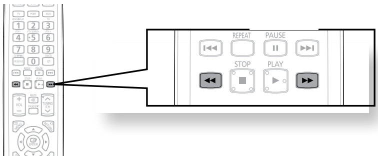

CD RIPPING
CANCEL
RESERVE
0
REPEAT
PAUSE
STOP
PLAY

## Fast playback

During playback, press the ◀◀,▶▶ button.

- Each time you press either button, the playback speed will change as follows:

  2x → 4x → 8x → 32x → Normal.


REPEAT
PAUSE
STOP
PLAY

## USB Host Specifications

| | |
|---|---|
| **USB Host Specification** | • Supports USB 1.1 or USB 2.0 compliant devices.<br>• Supports devices connected using the USB A type cable.<br>• Supports UMS (USB Mass Storage Device) V1.0 compliant devices.<br>• Supports the device of which the connected drive is formatted in the FAT(FAT, FAT16, FAT32) file system. |
| **Non-compliance** | • Does not support a device that requires installing a separate driver on the PC (Windows).<br>• Does not support connection to a USB hub.<br>• A USB device that is connected using the USB extension cable may not be recognized.<br>• A USB device requiring a separate power source needs to be connected to the player with the separate power connection. |
| **Operational Limitations** | • If the connected device has multiple drives (or partitions) installed, only one drive (or partition) can be connected.<br>• A device supporting USB 1.1 alone may cause a difference in the picture quality, depending on the device. |

## USB Devices that can be used with the Home Theater

1. USB Storage Device
2. MP3 Player
3. Digital Camera
4. Removable HDD
    - Removable HDDs equipped with less than 160 Gbytes are supported. Removable HDDs equipped with 160Gbytes or more may not be recognized, depending on the device.
    - If the connected device does not work due to insufficient power supply, you can use a separate power cable to supply power so that it can work properly. The connector of the USB cable may differ, depending on the manufacturer of the USB device.
5. USB card Reader: One slot USB card reader and Multi slot USB card reader.
    - Depending on the manufacturer. the USB card reader may not be supported.
    - If you install multiple memory devices into a multi card reader, you may experience problems.

## Compliant File Formats

| Format | File name | File extension | Bit rate | Version | Pixel | Sampling Frequency |
|---|---|---|---|---|---|---|
| **Still Picture** | JPG | JPG .JPEG | – | – | 640x480 | – |
| **Music** | MP3 | .MP3 | 80~384kbps | – | – | 44.1kHz |
| | WMA | .WMA | 56~128kbps | V8 | – | 44.1kHz |
| **Movie** | WMV | .WMV | 4Mbps | V1,V2,V3,V7 | 720x480 | 44.1KHz~48KHz |
| | DivX | .AVI,.ASF | 4Mbps | DivX3.11~<br>DivX5.1, XviD | 720x480 | 44.1KHz~48KHz |

- CBI (Control/Bulk/Interrupt) is not supported.
- Digital Cameras that use PTP protocol or require additional program installation when connected to a PC are not supported.
- A device using NTFS file system is not supported. (Only FAT 16/32 (File Allocation Table 16/32) file system is supported.)
- Does not operate with Janus enabled MTP (Media Transfer Protocol) devices.

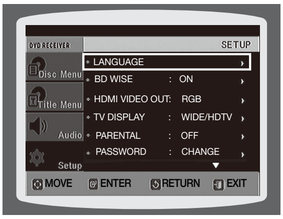
# system setup

For your convenience, you can set this DVD Home Cinema's features for the best use in your home environment.

## SETTING THE LANGUAGE

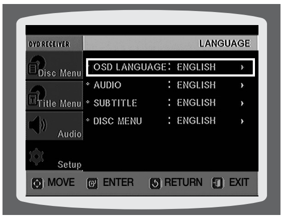
OSD(On-Screen Display) language is set to English by default.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Setup** and then press the **ENTER** button.
3. Select **Language** and then press the **ENTER** button.


DVD RECEIVER
SETUP
Disc Menu
Title Menu
Audio
Setup
MOVE
ENTER
RETURN
EXIT

LANGUAGE
BD WISE : ON
HDMI VIDEO OUT: RGB
TV DISPLAY : WIDE/HDTV
PARENTAL : OFF
PASSWORD : CHANGE

4. Press the Cursor ▲,▼ button to select **OSD Language** and then press the **ENTER** button.
5. Press the Cursor ▲,▼ button to select the desired language and then press the **ENTER** button.
   - Once the setup is complete, the OSD will be English if English has been selected as language.

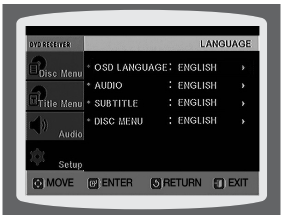

DVD RECEIVER
LANGUAGE
Disc Menu
Title Menu
Audio
Setup
MOVE
ENTER
RETURN
EXIT

OSD LANGUAGE : ENGLISH
AUDIO : ENGLISH
SUBTITLE : ENGLISH
DISC MENU : ENGLISH

➣ Press the **RETURN** button to return to the previous level.
➣ Press the **EXIT** button to exit the setup screen.

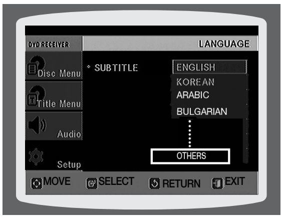
- **OSD LANGUAGE** : Selecting the OSD Language
- **AUDIO** : Selecting the Audio Language (recorded on the disc)
- **SUBTITLE** : Selecting the Subtitle Language (recorded on the disc)
- **DISC MENU** : Selecting the Disc Menu Language (recorded on the disc)

※ If the language you selected is not recorded on the disc, the menu language will not change even if you set it to your desired language.


DVD RECEIVER
LANGUAGE
Disc Menu
Title Menu
Audio
Setup
MOVE
ENTER
RETURN
EXIT

OSD LANGUAGE : ENGLISH
AUDIO : ENGLISH
SUBTITLE : ENGLISH
DISC MENU : ENGLISH

**OTHERS** : To select another language, select OTHERS and enter the language code of your country (see page 81). AUDIO, SUBTITLE and DISC MENU languages can be selected.

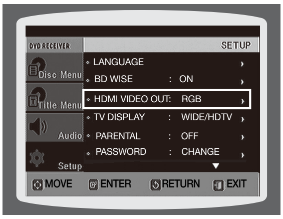

DVD RECEIVER
LANGUAGE
Disc Menu
Title Menu
Audio
Setup
SUBTITLE
ENGLISH
KOREAN
ARABIC
BULGARIAN
OTHERS
MOVE
SELECT
RETURN
EXIT

## SETTING THE HDMI VIDEO OUT MODE

Selects the type of output from the HDMI/OUT jack.

- **YCbCr** : Normally, select this when connecting to an HDMI device.
- **RGB** : Gives brighter colours and deeper blacks. Select this if colours are weak.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Setup** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **HDMI VIDEO OUT** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select the desired item and then press the **ENTER** button.
   - Once the setup is complete, you will be taken to the previous screen.


DVD RECEIVER
SETUP
Disc Menu
Title Menu
Audio
Setup
MOVE
ENTER
RETURN
EXIT

LANGUAGE
BD WISE : ON
HDMI VIDEO OUT: RGB
TV DISPLAY : WIDE/HDTV
PARENTAL : OFF
PASSWORD : CHANGE

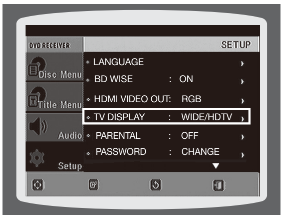
➣ Press the **RETURN** button to return to the previous level.
➣ Press the **EXIT** button to exit the setup screen.

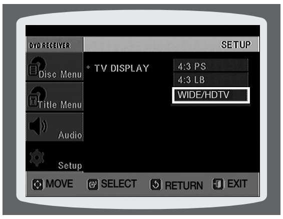
# SETTING THE TV SCREEN TYPE

You can select the TV's aspect ratio, depending on your TV type (Widescreen or conventional 4:3).

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Setup** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **TV DISPLAY** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select the desired item and then press the **ENTER** button.
   - Once the setup is complete, you will be taken to the previous screen.

➣ Press the **RETURN** button to return to the previous level.
➣ Press the **EXIT** button to exit the setup screen.


LANGUAGE
BD WISE : ON
HDMI VIDEO OUT: RGB
TV DISPLAY : WIDE/HDTV
PARENTAL : OFF
PASSWORD : CHANGE


TV DISPLAY
4:3 PS
4:3 LB
WIDE/HDTV

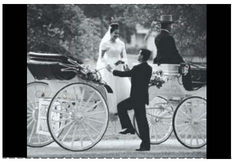
## Adjusting the TV Aspect Ratio (Screen Size)

The horizontal to vertical screen size ratio of conventional TV's is 4:3, while that of widescreen and high definition TV's is 16:9. This ratio is called the aspect ratio. When playing DVDs recorded in different screen sizes, you should adjust the aspect ratio to fit your TV or monitor.

For a standard TV, select either **4:3PS** or **4:3LB** option according to personal preference.
Select **WIDE/HDTV** if you have a widescreen TV.

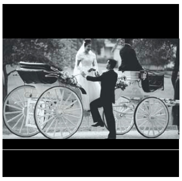
**4:3PS (4:3 Pan&Scan)**
Select this to play a 16:9 picture in the pan & scan mode on a conventional TV.

- You can see the central portion of the screen only (with the sides of the 16:9 picture cut off).



**4:3LB (4:3 Letterbox)**
Select this to play a 16:9 picture in the letter box mode on a conventional TV.

- Black bars will appear at the top and bottom of the screen.



**WIDE/HDTV**
Select this to view a 16:9 picture in the full-screen mode on your widescreen TV.

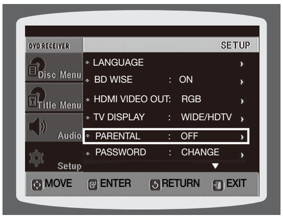
- You can enjoy the widescreen aspect.

- If a DVD is in the 4:3 ratio, you cannot view it in widescreen.
- Since DVD discs are recorded in various image formats, they will look different depending on the software, the type of TV, and the TV aspect ratio setting.
- When using HDMI, the screen is automatically converted to Wide mode.

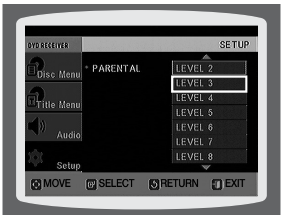
# SETTING PARENTAL CONTROLS (RATING LEVEL)

Use this to restrict playback of adult or violent DVDs you do not want children to view.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Setup** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **PARENTAL** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select the desired rating level and then press the **ENTER** button.
   - If you have selected Level 6, you cannot view DVDs with Level 7 or higher.
   - The higher the level, the closer the content is to violent or adult material.
5. Enter the password and then press the **ENTER** button.
   - The password is set to "7890" by default.
   - Once the setup is complete, you will be taken to the previous screen.


DVD RECEIVER
SETUP
Disc Menu
Title Menu
Audio
Setup
MOVE
ENTER
RETURN
EXIT

LANGUAGE
BD WISE : ON
HDMI VIDEO OUT: RGB
TV DISPLAY : WIDE/HDTV
PARENTAL : OFF
PASSWORD : CHANGE


DVD RECEIVER
SETUP
Disc Menu
Title Menu
Audio
Setup
MOVE
SELECT
RETURN
EXIT

PARENTAL
LEVEL 2
LEVEL 3
LEVEL 4
LEVEL 5
LEVEL 6
LEVEL 7
LEVEL 8

➣ Press the **RETURN** button to return to the previous level.

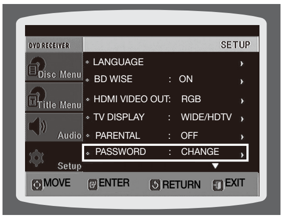
➣ Press the **EXIT** button to exit the setup screen.

- This function works only if a DVD disc contains the rating level information.

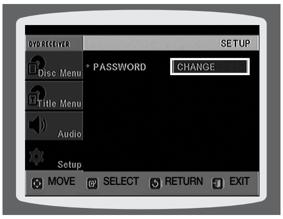
# SETTING THE PASSWORD

You can set the password for the Parental (rating level) setting.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Setup** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **PASSWORD** and then press the **ENTER** button.
4. Press the **ENTER** button.
5. Enter the password and then press the **ENTER** button.
   - Enter the old password, a new password, and confirm new password.
   - The setting is complete.


DVD RECEIVER
SETUP
Disc Menu
Title Menu
Audio
Setup
MOVE
ENTER
RETURN
EXIT

LANGUAGE
BD WISE : ON
HDMI VIDEO OUT: RGB
TV DISPLAY : WIDE/HDTV
PARENTAL : OFF
PASSWORD : CHANGE


DVD RECEIVER
SETUP
Disc Menu
Title Menu
Audio
Setup
MOVE
SELECT
RETURN
EXIT

PASSWORD CHANGE

- The password is set to "7890" by default.

## If you have forgotten the rating level password, do the following

- While the player is in No Disc mode, hold the remote control's **STOP** (■) button for longer than 5 seconds. **INITIAL** appears on the display and all settings will return to the default values.
- Press the **POWER** button.

Using the RESET function will erase all stored settings.
Do not use this unless necessary.

## DivX (R) Registration

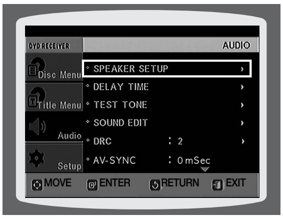
Please use the Registration code to register this player with the DivX (R) video on demand format.

To learn more, go to www.divx.com/vod.

## SETTING THE SPEAKER MODE

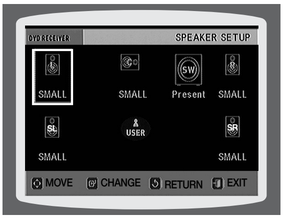
Signal outputs and frequency responses from the speakers will automatically be adjusted according to your speaker configuration and whether certain speakers are used or not.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. In the **SPEAKER SETUP**, press the **ENTER** button again.
4. Press the Cursor ▲,▼,◀,▶ button to move to the desired speaker and then press the **ENTER** button.
    - For C, SL, and SR, each time the button is pressed, the mode switches alternately as follows : SMALL ➞ NONE.
    - For L and R, the mode is set to SMALL.


DVD RECEIVER
AUDIO
Disc Menu
Title Menu
Audio
Setup
SPEAKER SETUP
DELAY TIME
TEST TONE
SOUND EDIT
MOVE
ENTER
RETURN
EXIT

DRC : 2

AV-SYNC : 0 mSec


DVD RECEIVER
SPEAKER SETUP
L
SMALL
C
SMALL
SW
Present
R
SMALL
SL
SMALL
USER
SR
SMALL
MOVE
CHANGE
RETURN
EXIT

- **SMALL** : Select this when using the speakers.
- **NONE** : Select this when no speaker is connected.

➢ Press the **RETURN** button to return to the previous level.

➢ Press the **EXIT** button to exit the setup screen.

- Depending on PRO LOGIC and STEREO settings, the speaker mode may vary (see page 59).

# SETTING THE DELAY TIME

If the speakers cannot be placed at equal distances from the listening position, you can adjust the delay time of the audio signals from the Centre and rear speakers.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **DELAY TIME** and then press the **ENTER** button.
4. Press the Cursor ▲,▼,◀,▶ button to move to the desired speaker and then press the **ENTER** button.
5. Press the Cursor ◀,▶ to set the Delay time.
   - You can set the delay time for C between 00 and 05mSEC and for SL and SR between 00 and 15mSEC.

➣ Press the **RETURN** button to return to the previous level.

➣ Press the **EXIT** button to exit the setup screen.

## Setting up the Speaker Delay Time

When 5.1CH Surround Sound is played, you can enjoy the best sound if the distance between you and each speaker is the same.
Since the sounds arrive at the listening position at different times depending on the placement of speakers, you can adjust this difference by adding a delay effect to the sound of the Centre and Rear Speakers.

### Setting Centre SPEAKER

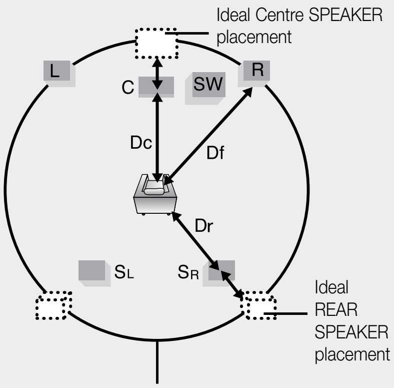
If the distance of Dc is equal to or longer than the distance of Df in the figure, set the mode as 0ms.
Otherwise, change the setting according to the table.

| Distance between Df and Dc | 0.00 m | 0.34 m | 0.68 m | 1.06 m | 1.40 m | 1.76 m |
|---|---|---|---|---|---|---|
| **Delay Time** | 0 ms | 1 ms | 2 ms | 3 ms | 4 ms | 5 ms |

### Setting REAR SPEAKER

If the distance of Dc is equal to or longer than the distance of Dr in the figure, set the mode as 0ms.
Otherwise, change the setting according to the table.

| Distance between Df and Dc | 0.00 m | 1.06 m | 2.11 m | 3.16 m | 3.62 m | 5.29 m |
|---|---|---|---|---|---|---|
| **Delay Time** | 0 ms | 3 ms | 6 ms | 9 ms | 12 ms | 15 ms |



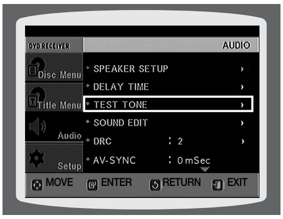
It is desirable to place all speakers within this circle.

Df: The distance from FRONT SPEAKER
Dc: The distance from Centre SPEAKER
Dr: The distance from REAR SPEAKER

- With **PL II** (Dolby Pro Logic II), the delay time may be different for each mode.
- With AC-3 and DTS, the delay time can be set between 00 and 15mSEC.
- The Centre channel is only adjustable on 5.1 channel discs.

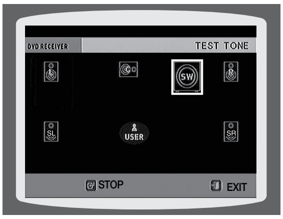
## USING THE TEST TONE

Use the Test Tone feature to check the speaker connections.


DVD RECEIVER
AUDIO
Disc Menu
Title Menu
Audio
Setup
SPEAKER SETUP
DELAY TIME
TEST TONE
SOUND EDIT
MOVE
ENTER
RETURN
EXIT

DRC : 2

AV-SYNC : 0 mSec


DVD RECEIVER
TEST TONE
SW
SL
USER
SR
STOP
EXIT

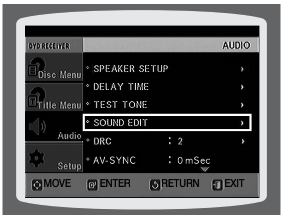
1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **TEST TONE** and then press the **ENTER** button.
   - The test tone will be sent to **L → C → R → SR → SL → SW** in order. If the **ENTER** button is pressed again at this time, the test tone will stop.

➣ Press the **RETURN** button to return to the previous level.

➣ Press the **EXIT** button to exit the setup screen.

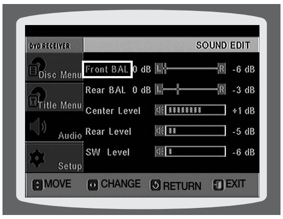
## SETTING THE AUDIO

You can adjust the balance and level for each speaker.


DVD RECEIVER
AUDIO
Disc Menu
Title Menu
Audio
Setup
SPEAKER SETUP
DELAY TIME
TEST TONE
SOUND EDIT
MOVE
ENTER
RETURN
EXIT

DRC : 2

AV-SYNC : 0 mSec


DVD RECEIVER
SOUND EDIT
Disc Menu
Title Menu
Audio
Setup
L
R
MOVE
CHANGE
RETURN
EXIT

Front BAL 0 dB -6 dB

Rear BAL 0 dB -3 dB

Center Level +1 dB

Rear Level -5 dB

SW Level -6 dB

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **SOUND EDIT** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select and adjust the desired item. Press the Cursor ◀,▶ button to adjust the settings.

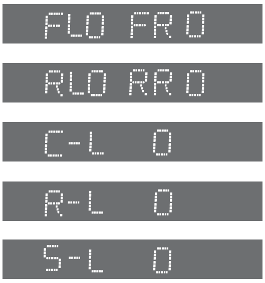
➣ Press the **RETURN** button to return to the previous level.

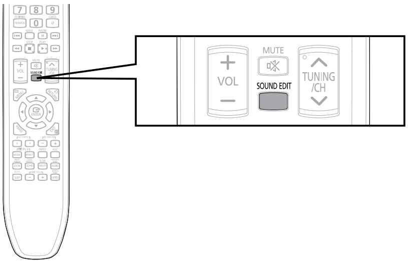
➣ Press the **EXIT** button to exit the setup screen.

# SETTING THE AUDIO

## Manually Adjusting the Speaker Volume and Balance with the SOUND EDIT Button.

Press the **SOUND EDIT** button and then press the Cursor ◀,▶ button.


FL0 FR 0
RL0 RR 0
C-L 0
R-L 0
S-L 0


MUTE
VOL
SOUND EDIT
TUNING
/CH

### Adjusting Front/Rear Speaker Balance

- You can select between 0, -6, and OFF.
- The volume decreases as you move closer to –6.

### Adjusting Centre/Rear/Subwoofer Speaker Level

- The volume level can be adjusted in steps from +6dB to –6dB.
- The sound gets louder as you move closer to +6dB and quieter as you get closer to -6dB.

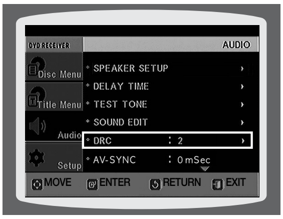
# SETTING THE DRC (DYNAMIC RANGE COMPRESSION)

This feature balances the range between the loudest and quietest sounds. You can use this function to enjoy Dolby Digital sound when watching movies at low volume at night.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **DRC** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ to adjust the **DRC**.
   - When the Cursor ▲ button is pressed, the effect is greater, and when the Cursor ▼ button is pressed, the effect is smaller.

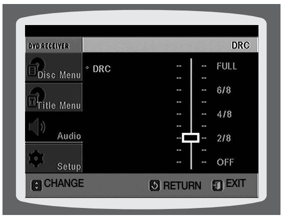
➣ Press the **RETURN** button to return to the previous level.

➣ Press the **EXIT** button to exit the setup screen.


DVD RECEIVER
AUDIO
Disc Menu
Title Menu
Audio
Setup
SPEAKER SETUP
DELAY TIME
TEST TONE
SOUND EDIT
MOVE
ENTER
RETURN
EXIT

DRC : 2

AV-SYNC : 0 mSec


DVD RECEIVER
DRC
Disc Menu
Title Menu
Audio
Setup
DRC
FULL
6/8
4/8
2/8
OFF
CHANGE
RETURN
EXIT

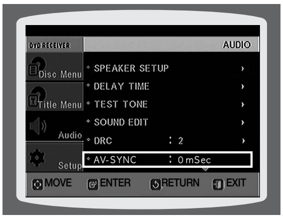
## SETTING THE AV SYNC

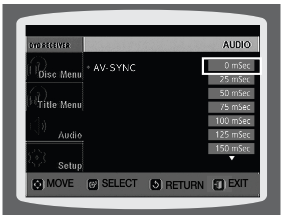
Video may look slower than the audio if it is connected to a digital TV. If this occurs, adjust the audio delay time to match the video.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **AV-SYNC** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select the AV-SYNC Delay Time and then press the **ENTER** button.
   - You can set the audio delay time between 0 ms and 300 ms. Set it to the optimal status.

➣ Press the **RETURN** button to return to the previous level.

➣ Press the **EXIT** button to exit the setup screen.


DVD RECEIVER
AUDIO
Disc Menu
Title Menu
Audio
Setup
SPEAKER SETUP
DELAY TIME
TEST TONE
SOUND EDIT
DRC : 2
AV-SYNC : 0 mSec
MOVE
ENTER
RETURN
EXIT


DVD RECEIVER
AUDIO
Disc Menu
Title Menu
Audio
Setup
AV-SYNC
0 mSec
25 mSec
50 mSec
75 mSec
100 mSec
125 mSec
150 mSec
MOVE
SELECT
RETURN
EXIT

## SETTING THE HDMI AUDIO

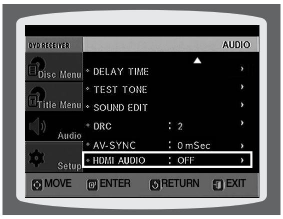
The audio signals transmitted over the HDMI Cable can be toggled ON/OFF.

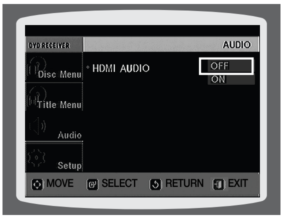
1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **HDMI AUDIO** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select **ON** or **OFF** and then press the **ENTER** button.

- **ON :** Both video and audio signals are transmitted over the HDMI connection cable, and audio is output through your TV speakers only.
- **OFF :** Video is transmitted over the HDMI connection cable only, and audio is output through the home cinema speakers only.

➣ Press the **RETURN** button to return to the previous level.

➣ Press the **EXIT** button to exit the setup screen.


DVD RECEIVER
AUDIO
Disc Menu
Title Menu
Audio
Setup
DELAY TIME
TEST TONE
SOUND EDIT
DRC : 2
AV-SYNC : 0 mSec
HDMI AUDIO : OFF
MOVE
ENTER
RETURN
EXIT


DVD RECEIVER
AUDIO
Disc Menu
Title Menu
Audio
Setup
HDMI AUDIO
OFF
ON
MOVE
SELECT
RETURN
EXIT

- The default setting of this function is HDMI AUDIO OFF.
- HDMI AUDIO is automatically down-mixed to 2ch for TV speakers.
- When HDMI AUDIO is on,PRO LOGIC II /DSP EQ/P.BASS doesn't work.

# SOUND FIELD (DSP)/EQ FUNCTION

DSP(Digital Signal Processor) : DSP modes have been designed to simulate different acoustic environments.

EQ : You can select ROCK, POP, or CLASSIC to optimize the sound for the genre of music you are playing

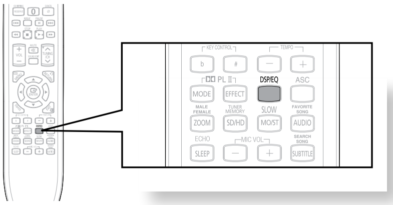
Press the DSP/EQ button.

- **DSP** appears on the display panel.

Each time the button is pressed, the selection changes as follows:

POPS → JAZZ → ROCK → STUDIO → CLUB → HALL → MOVIE → CHURCH → PASS

- **POPS, JAZZ, ROCK** : Depending on the genre of music, you can select POPS, JAZZ, and ROCK.
- **STUDIO** : Provides a sense of presence as if in a studio.
- **CLUB** : Simulates the sound of a dance club with a throbbing bass beat.
- **HALL** : Provides a clear vocal as if listening in a concert hall.
- **MOVIE** : Provides the feeling of a movie cinema.
- **CHURCH** : Gives the feel of being in a grand church.
- **PASS** : Select this for normal listening.


KEY CONTROL
TEMPO
PL II
DSP/EQ
ASC
MODE
EFFECT
MALE FEMALE
TUNER MEMORY
SLOW
FAVORITE SONG
ZOOM
SD/HD
MO/ST
AUDIO
ECHO
MIC VOL
SEARCH SONG
SLEEP
SUBTITLE

- The DSP/EQ function is only available in STEREO mode. Press the DD **PL II mode** button to show STEREO on the display.
- This feature works with CDs, MP3-CDs, DivX, tuner and Dolby Digital discs.
- When playing a DVD disc encoded with two or more channels, the multi-channel mode will be selected automatically and DSP/EQ does not work.

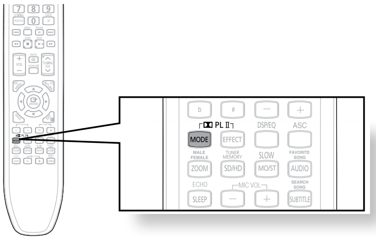
# DOLBY PRO LOGIC II MODE

You can select the desired Dolby Pro Logic II audio mode.

Press the DD **PL II MODE** button.

- Each time the button is pressed, the mode changes as follows.

MUSIC → CINEMA → PRO LOGIC → MATRIX → STEREO → MUSIC


PL II
DSP/EQ
ASC
MODE
EFFECT
MALE FEMALE
TUNER MEMORY
SLOW
FAVORITE SONG
ZOOM
SD/HD
MO/ST
AUDIO
ECHO
MIC VOL
SEARCH SONG
SLEEP
SUBTITLE

## PRO LOGIC II

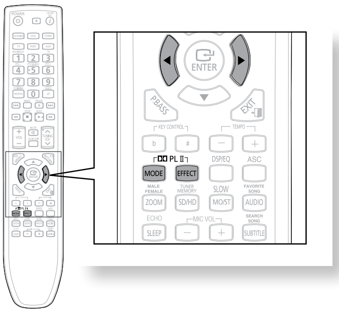
- **MUSIC** : When listening to music, you can experience sound effects as if you are listening to the actual performance.
- **CINEMA** : Adds realism to the movie soundtrack.
- **PRO LOGIC** : You will experience a realistic multi-channel effect, as if using five speakers, while using just the front left and right speakers.
- **MATRIX** : You will hear 5.1 channel surround sound.
- **STEREO** : Select this to listen to sound from the front left and right speakers and the subwoofer only.

- When selecting Pro Logic II mode, connect your external device to the AUDIO INPUT jacks (L and R) on the player. If you connect to only one of the inputs (L or R), you cannot listen to surround sound.
- PRO LOGIC II function is only available in STEREO mode.

## DOLBY PRO LOGIC II EFFECT

This function works only in Dolby Pro Logic MUSIC mode.

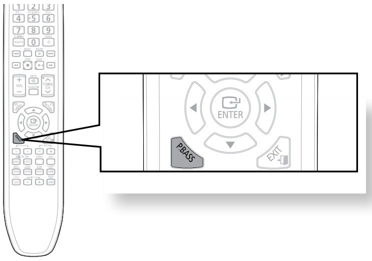
1. Press the **PL II MODE** button to select **MUSIC** mode.
2. Press the **PL II EFFECT** button.
3. Press the ◀,▶ buttons to select the desired effect setting.
   - PANORAMA : You can select either 0 or 1.
   - C- WIDTH : You can select between 0 and 7.
   - DIMENS : You can select between 0 and 6.


ENTER
P.BASS
EXIT
KEY CONTROL
TEMPO
b
#
PL II
DSP/EQ
ASC
MODE
EFFECT
MALE FEMALE
TUNER MEMORY
SLOW
FAVORITE SONG
ZOOM
SD/HD
MO/ST
AUDIO
ECHO
MIC VOL
SEARCH SONG
SLEEP
SUBTITLE

## P.BASS

The P.BASS function provides a bass boost to reinforce the low frequencies.

1. Press the **P.BASS** button to select P.BASS mode.
2. Press the **P.BASS** button again to turn off the P. BASS mode.

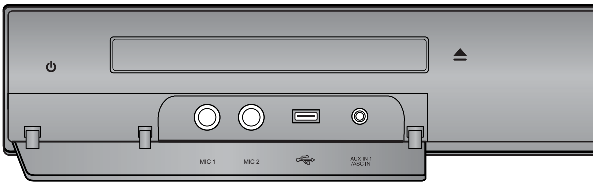

ENTER
P.BASS
EXIT

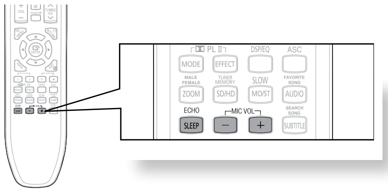
- The P.BASS function is only available with 2 channel LPCM sources such as mp3,Divx,cd and wma. Press P.BASS button and "POWER BASS ON" will be displayed on the screen.
- The P.bass does not work with DSP/EQ or DOLBY PRO LOGIC II modes.
  If you press P.BASS in the DSP/EQ mode, the DSP/EQ mode is automatically shut off and the P. BASS function comes on.

## CONNECTING MICROPHONE

You can enjoy the feeling of a karaoke bar in the comfort of your home.
Watch the video and sing along the lyrics displayed on the TV screen against the accompaniment.

1. Connect the microphone to the MIC jack on the front panel.
   - You can connect up to two microphones.
   - When HDMI Audio/Bluetooth is on,Mic is not available.

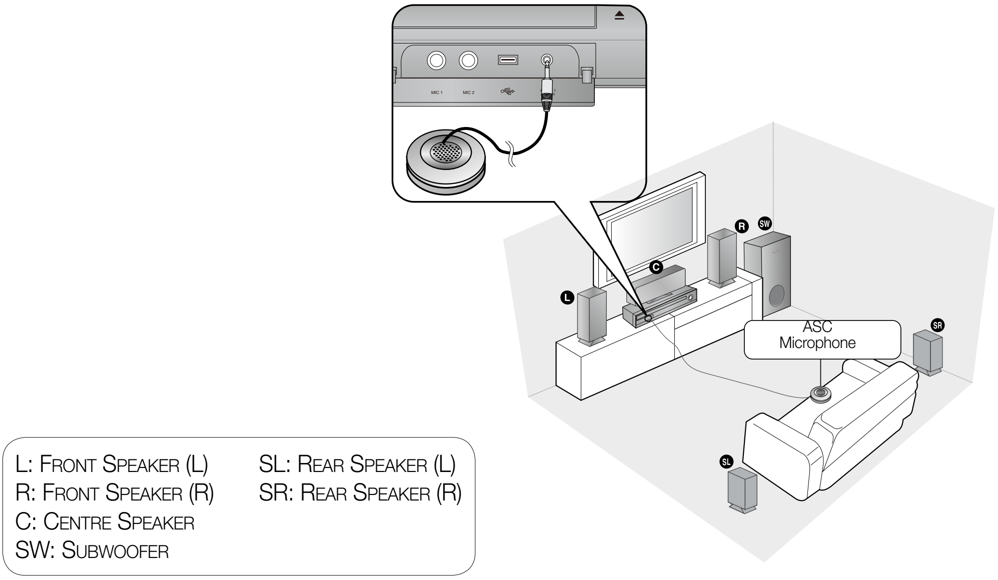

MIC 1
MIC 2
AUX IN 1 /ASC IN


PL II
DSP/EQ
ASC
MODE
EFFECT
MALE FEMALE
TUNER MEMORY
SLOW
FAVORITE SONG
ZOOM
SD/HD
MO/ST
AUDIO
ECHO
MIC VOL
SEARCH SONG
SLEEP
SUBTITLE

2. Press the **MIC +,-** button to adjust the voice volume of the microphone.
3. Press the **ECHO** button to adjust the echo level of the microphone.

# ASC (Auto Sound Calibration) SETUP

By setting the ASC function just once when you relocate or install the unit, you can have the unit automatically recognize the distance between speakers, levels between channels, and frequency characteristics to create a 5.1-channel sound field optimized for your environment.



L: Front Speaker (L)
R: Front Speaker (R)
C: Centre Speaker
SW: Subwoofer
SL: Rear Speaker (L)
SR: Rear Speaker (R)

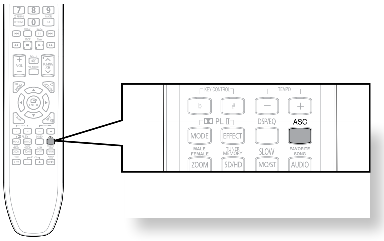
- ASC SETUP can be made when there is no disc in the unit.
- Because the volume level of the tone is fixed during the ASC setup, you cannot adjust the volume using the volume control buttons.
- If the auto sound microphone is disconnected during the ASC setup, the setup will be cancelled.
- When ASC function is activated, the DSP/EQ, DOLBY PRO LOGIC II, and P. BASS sound effects will not work.

## To Verify the ASC

Briefly press the **ASC** button.

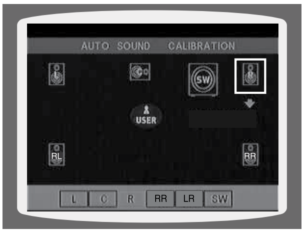
- Distance and level values specified for each channel will appear in the display.

## ASC (Auto Sound Calibration) SETUP


KEY CONTROL
TEMPO
b
#
PL II
DSP/EQ
ASC
MODE
EFFECT
MALE FEMALE
TUNER MEMORY
SLOW
FAVORITE SONG
ZOOM
SD/HD
MO/ST
AUDIO

1. Plug the ASC microphone into the ASC input jack.
2. Place the ASC microphone at the listening position.
3. Press **ASC** button.
   - To create the optimal 5.1 channel sound field, the selections are in the following sequence:

     L → C → R → SR → SL → SW
4. When the message "REMOVE MIC" appears in the display, unplug the ASC microphone.


AUTO SOUND CALIBRATION
SW
USER
RL
RR
L
C
R
RR
LR
SW

- Setting the ASC function takes about 3 minutes.

### To cancel the ASC (Auto Sound Calibration) setup, press the ASC button.

The test tone output stops, "CANCEL ASC" appears in the display .

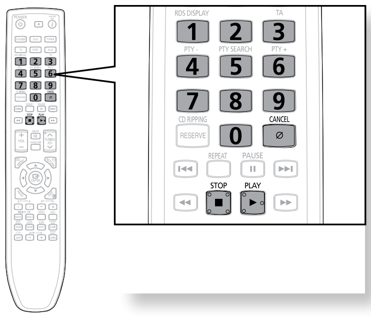
### To listen in the ASC (Auto Sound Calibration) mode, briefly press ASC button.

The selection alternates between ASC ON and ASC OFF in the display.

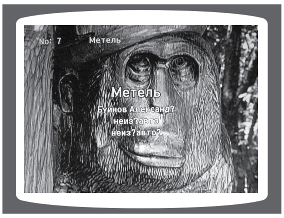
If you select "ASC ON", you will hear sound in the ASC mode.
If you select "ASC OFF", you will hear sound in the mode set in the audio setup.

# PLAYING DVD-OK DISCS

You can enjoy the feeling of a karaoke bar in the comfort of your home. Watch the video and sing along the lyrics displayed on the TV screen with company.


RDS DISPLAY
TA
1
2
3
PTY -
PTY SEARCH
PTY +
4
5
6
7
8
9
CD RIPPING
CANCEL
RESERVE
0
REPEAT
PAUSE
STOP
PLAY

1. Use the **number (0~9)** buttons to select the song you want to play back.
   - The number and title of the song will be displayed on top of the screen .
2. Press the **PLAY** (▶) button.
   - The title of the song will be displayed on the screen and the accompaniment starts.


No: 7
Метель
Метель
Буйнов Александ?
неиз?авто
неиз?авто?

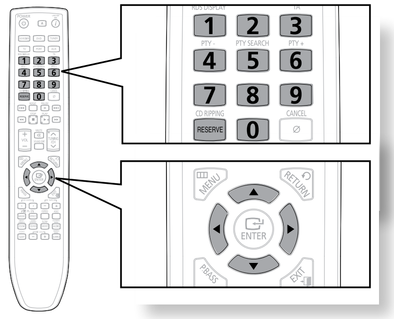
➣ To Clear Incorrectly Entered Song Numeric
- Press the **CANCEL** button.

➣ To Stop During Accompaniment
- Press the **STOP** (■) button.

# RESERVING A SONG

## Case 1>

1. In Stop / Play mode, use the **number (0~9)** button to select a song.
2. Press the **RESERVE** button.


RDS DISPLAY
TA
1
2
3
PTY -
PTY SEARCH
PTY +
4
5
6
7
8
9
CD RIPPING
CANCEL
RESERVE
0
MENU
RETURN
ENTER
P.BASS
EXIT

## Case 2>

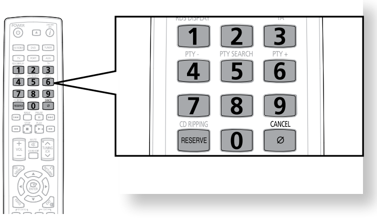
1. In the Search song list, use the ▲,▼,◀,▶ button to select a song.
2. Press the **RESERVE** button.

## Case 3>

1. In the Favorite list, use the ▲,▼,◀,▶ button to select a song.
2. Press the **RESERVE** button.

## RESERVING A SONG DURING ACCOMPANIMENT

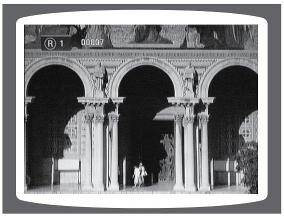
While the accompaniment is playing, you can reserve the next song you want to sing.


RDS DISPLAY
TA
1
2
3
PTY -
PTY SEARCH
PTY +
4
5
6
7
8
9
CD RIPPING
CANCEL
RESERVE
0
∅

1. Press the **number (0~9)** buttons to select the song you want to reserve.
2. Press the **RESERVE** button.
   - The next song is reserved.

➣ To Cancel the Reservation

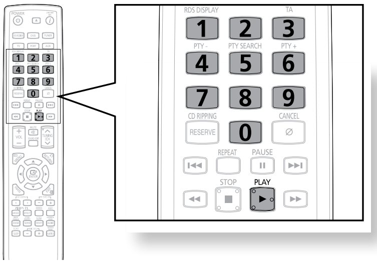
1. Enter the number of the song you have reserved.
2. Press the **CANCEL** button.



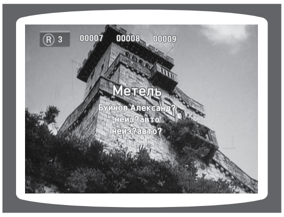
- A maximum of ten songs can be reserved.

## PRIORITY PLAYING ACCOMPANIMENT MUSIC

Even if there is a song already reserved, you can have the song you want to sing to be played first.


RDS DISPLAY
TA
1
2
3
PTY -
PTY SEARCH
PTY +
4
5
6
7
8
9
CD RIPPING
CANCEL
RESERVE
0
∅
REPEAT
PAUSE
STOP
PLAY

1. In Stop mode, press the **number (0~9)** buttons to select the song you want to play back.
2. Press the **PLAY** (▸) button.


R 3
00007
00008
00009
Метель
Буйнов Александ?
неиз?авто
неиз?авто?

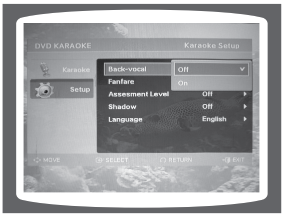
# KARAOKE SETTING FUNCTION

- It consists of two modes: Karaoke and Setup.
- In Karaoke mode, you can select from Search song/ Favorite List/ Bowling game.
- In Setup mode, you can select from Back-vocal/ Fanfare/ Assesment level/ Shadow/ Language.

1. Press the **MENU** button in Stop mode.
2. Use the ▲,▼ button to select a desired mode (Karaoke/ Setup) and use the ▲,▼,◀,▶ button to select a desired item.

## Setting the Back-vocal

You can set the back-vocal to ON or OFF.


DVD KARAOKE
Karaoke Setup
Karaoke
Setup
Back-vocal
Off
On
Fanfare
Assesment Level
Off
Shadow
Off
Language
English
MOVE
SELECT
RETURN
EXIT

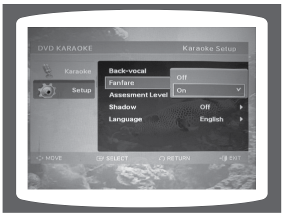
1. Load a DVD-OK disc.
2. Press **MENU** button.
3. Use the ▲,▼,◀,▶ button to select **SETUP → Back-vocal**.
4. Use the ▲,▼ button to select the desired item and press the **ENTER** button.
   - The selection changes as follows :

On → Off

- If you operate the Tempo function while a song with supporting chorus is played back, the chorus will be released.
- Back-vocal function may not work depending on information recorded in the disc.

## Setting the Fanfare

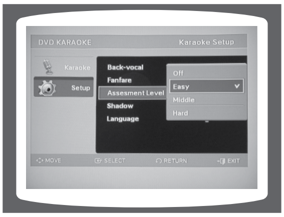
You can set Fanfare to come out after singing a song.


DVD KARAOKE
Karaoke Setup
Karaoke
Setup
Back-vocal
Fanfare
Off
On
Assesment Level
Shadow
Off
Language
English
MOVE
SELECT
RETURN
EXIT

1. Load a DVD-OK disc.
2. Press **MENU** button.
3. Use the ▲,▼,◀,▶ button to select **SETUP → Fanfare**.
4. Use the ▲,▼ button to select the desired item and press the **ENTER** button.
   - The selection changes as follows :

On → Off

## Setting the Assesment Level

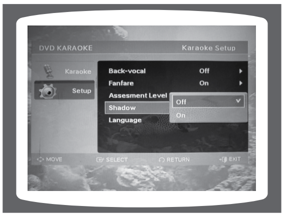

DVD KARAOKE
Karaoke Setup
Karaoke
Setup
Back-vocal
Fanfare
Assesment Level
Shadow
Language
Off
Easy
Middle
Hard
MOVE
SELECT
RETURN
EXIT

You can set the grade of scores displayed in the screen in advance.

1. Load a DVD-OK disc.
2. Press **MENU** button.
3. Use the ▲,▼,◀,▶ button to select **SETUP** → **Assesment Level**.
4. Use the ▲,▼ button to select the desired item and press the **ENTER** button.
   - The selection changes as follows :

**Off** → **Easy** → **Middle** → **Hard**

## Setting the Shadow

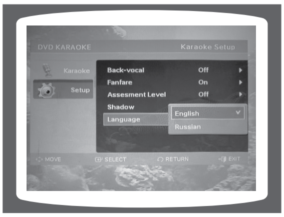

DVD KARAOKE
Karaoke Setup
Karaoke
Setup
Back-vocal
Off
Fanfare
On
Assesment Level
Shadow
Language
Off
On
MOVE
SELECT
RETURN
EXIT

You can set the lyrics to be displayed on the blue shadow box.

1. Load a DVD-OK disc.
2. Press **MENU** button.
3. Use the ▲,▼,◀,▶ button to select **SETUP** → **Shadow**.
4. Use the ▲,▼ button to select the **On/Off** popup and use the **ENTER** button to select a desired item.
   - The selection changes as follows :

→ **On** → **Off**

## Setting the Language


DVD KARAOKE
Karaoke Setup
Karaoke
Setup
Back-vocal
Off
Fanfare
On
Assesment Level
Off
Shadow
Language
English
Russian
MOVE
SELECT
RETURN
EXIT

You can select the OSD language between English and Russian.

1. Load a DVD-OK disc.
2. Press **MENU** button.
3. Use the ▲,▼,◀,▶ button to select **SETUP** → **Language**.
4. Use the ▲,▼ button to select the **English/Russian** popup and use the **ENTER** button to select a desired item.
   - The selection changes as follows :

→ **English** → **Russian**

# SEARCHING SONG FUNCTION

You can easily search songs on screen without viewing the song list book.

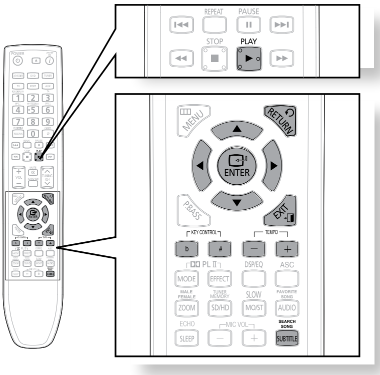
Pressing the (◀,▶) button in Song list mode will move one page at a time. ▲,▼ moves one song at a time.

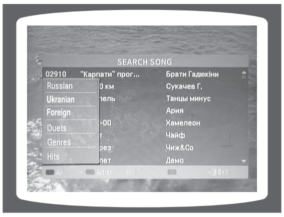
## Structure of Song Search

| Items | Detailed Items | Alphabet(and Number) |
|---|---|---|
| Russian<br>Ukranian<br>Foreign | Title<br>Artist | А ~ Я, 1 ~ 0<br>А ~ Я, 1 ~ 0<br>А ~ Я, 1 ~ 0 |
| Duets | Title | |
| Genres | Rock<br>Chanson<br>Folk<br>Ballad<br>Romances | |
| Hits | Modern<br>70-80<br>Kids<br>Patriotic | |

## Searching by Language

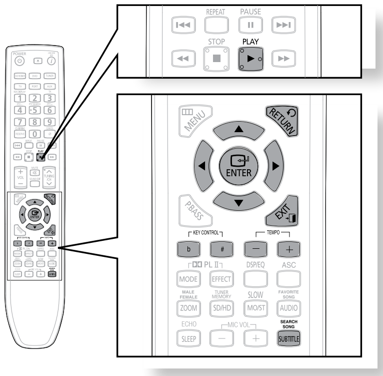
1. During the stop mode, press the **SEARCH SONG** button. or in MENU mode, use the ▲,▼,◀,▶ button to select **Karaoke → SEARCH SONG**
2. Press the **RED (b)** button press the ▲,▼ button to select the language you want.
   - You can select the language among **Russian → Ukranian → Foreign→Duets→Genres→Hits**.
   - At this time, press **RETURN** button to move to the song list on the bottom.
3. Press **GREEN (#)** button and then press the ▲,▼ button to select the **Title** or **Artist**.
4. Press **YELLOW (-)** button to move to alphabet and press ▲,▼ button to select a character.
5. Press the **BLUE (+)** button and then press the ▲,▼ buttons to move to the detailed items.
6. Press **ENTER** button to move to the song list and then press ▲,▼ button to select the song you want.
7. Press the **PLAY** button to play back the selected song.


REPEAT
PAUSE
STOP
PLAY
MENU
RETURN
ENTER
P.BASS
EXIT
KEY CONTROL
TEMPO
b
#
PL II
DSP/EQ
ASC
MODE
EFFECT
MALE FEMALE
TUNER MEMORY
SLOW
FAVORITE SONG
ZOOM
SD/HD
MO/ST
AUDIO
ECHO
MIC VOL
SEARCH SONG
SLEEP
SUBTITLE


SEARCH SONG
02910 "Карпати" прог... Брати Гадюкіни
Russian
Ukranian
Foreign
Duets
Genres
Hits
0 км
нель
-00
т
рез
лет
Сукачев Г.
Танцы минус
Ария
Хамелеон
Чайф
Чиж&Co
Демо
All
Artist
Exit

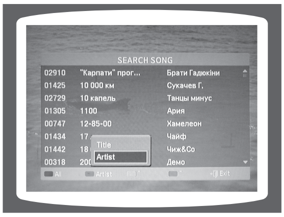
➣ To Exit Search Song Screen
- Press **EXIT** button.

## Searching a DUET SONG


REPEAT
PAUSE
STOP
PLAY
MENU
RETURN
ENTER
P.BASS
EXIT
KEY CONTROL
TEMPO
b
#
PL II
DSP/EQ
ASC
MODE
EFFECT
MALE FEMALE
TUNER MEMORY
SLOW
FAVORITE SONG
ZOOM
SD/HD
MO/ST
AUDIO
ECHO
MIC VOL
SEARCH SONG
SLEEP
SUBTITLE

1. During the stop mode, press the **SEARCH SONG** button. or in MENU mode, use the ▲,▼,◀,▶ button to select **Karaoke → SEARCH SONG**
2. Press the **RED (b)** button, press the ▲,▼ button to select the **Dutes**.
   - At this time, press **RETURN** button to move to the song list on the bottom.
3. Press **GREEN (#)** button to select the **Title**.
4. Press **YELLOW (-)** button to move to alphabet and press ▲,▼ button to select a character.
5. Press the **BLUE (+)** button and then press the ▲,▼ buttons to move to the detailed items.
6. Press **ENTER** button to move to the song list and then press ▲,▼ button to select the song you want.
7. Press the **PLAY** button to play back the selected song.

➣ To Exit Search Song Screen
- Press **EXIT** button.



SEARCH SONG

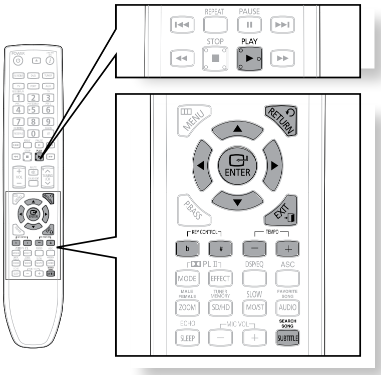
| | | |
|---|---|---|
| 02910 | "Карпати" прог... | Брати Гадюкіни |
| 01425 | 10 000 км | Сукачев Г. |
| 02729 | 10 капель | Танцы минус |
| 01305 | 1100 | Ария |
| 00747 | 12-85-00 | Хамелеон |
| 01434 | 17 | Чайф |
| 01442 | 18 | Чиж&Co |
| 00318 | 200 | Демо |

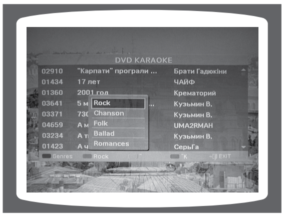
Title
Artist
All
Artist
Exit

## Searching by Genre

1. During the stop mode, press the **SEARCH SONG** button. or in MENU mode, use the ▲,▼,◀,▶ button to select **Karaoke → SEARCH SONG**
2. Press the **RED (b)** button, press the ▲,▼ button to select the **Genres**.
   - At this time, press **RETURN** button to move to the song list on the bottom.
3. Press **GREEN (#)** button to move to the detailed items and then press ▲,▼ button to select the genre you want.
   - You can select the genre among **ROCK → Chanson → Folk → Ballad → Romances**.
4. Press **YELLOW (-)** button to move to alphabet and press ▲,▼ button to select a character.
5. Press the **BLUE (+)** button and then press the ▲,▼ buttons to move to the detailed items.
6. Press **ENTER** button to move to the song list and then press ▲,▼ button to select the song you want.
7. Press the **PLAY** button to play back the selected song.

➣ To Exit Search Song Screen
- Press **EXIT** button.


REPEAT
PAUSE
STOP
PLAY
MENU
RETURN
ENTER
P.BASS
EXIT
KEY CONTROL
TEMPO
b
#
PL II
DSP/EQ
ASC
MODE
EFFECT
MALE FEMALE
TUNER MEMORY
SLOW
FAVORITE SONG
ZOOM
SD/HD
MO/ST
AUDIO
ECHO
MIC VOL
SEARCH SONG
SLEEP
SUBTITLE



DVD KARAOKE

| | | |
|---|---|---|
| 02910 | "Карпати" програли ... | Брати Гадюкіни |
| 01434 | 17 лет | ЧАЙФ |
| 01360 | 2001 год | Крематорий |
| 03641 | 5 м ... | Кузьмин В. |
| 03371 | 730 | Кузьмин В. |
| 04659 | А м | UMA2RMAH |
| 03234 | А т | Кузьмин В. |
| 01423 | А ч | СерьГа |

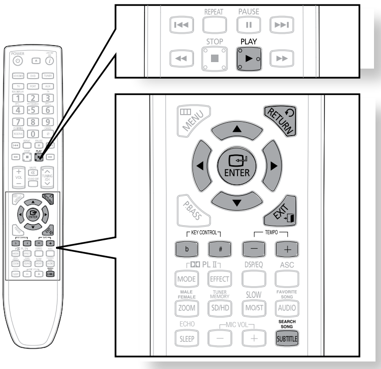
Rock
Chanson
Folk
Ballad
Romances
Genres
Rock
EXIT

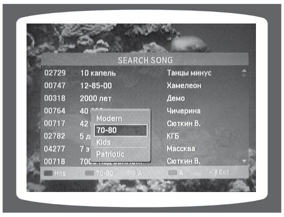
# SEARCHING SONG FUNCTION

## Searching by HIT SONGS

1. During the stop mode, press the **SEARCH SONG** button. or in MENU mode, use the ▲,▼,◀,▶ button to select **Karaoke → SEARCH SONG**
2. Press the **RED (b)** button press the ▲,▼ button to select the **Hits**.
   - At this time, press **RETURN** button to move to the song list on the bottom.
3. Press **GREEN (#)** button to move to the detailed items and then press ▲,▼ button to select the hits song.
   - You can select the song list among the detailed category **Modern → 70~80 → Kids → Patriotic**.
4. Press **YELLOW (-)** button to move to alphabet and press ▲,▼ button to select a character.
5. Press the **BLUE (+)** button and then press the ▲,▼ buttons to move to the detailed items.
6. Press **ENTER** button to move to the song list and then press ▲,▼ button to select the song you want.
7. Press the **PLAY** button to play back the selected song.

➢ To Exit Search Song Screen
   - Press **EXIT** button.


REPEAT
PAUSE
STOP
PLAY
MENU
RETURN
ENTER
P.BASS
EXIT
KEY CONTROL
TEMPO
b
#
PL II
DSP/EQ
ASC
MODE
EFFECT
MALE FEMALE
TUNER MEMORY
SLOW
FAVORITE SONG
ZOOM
SD/HD
MO/ST
AUDIO
ECHO
MIC VOL
SEARCH SONG
SLEEP
SUBTITLE



SEARCH SONG

02729 10 капель Танцы минус
00747 12-85-00 Хамелеон
00318 2000 лет Демо
00764 40 Чичерина
00717 42 Сюткин В.
02782 5 д КГБ
04277 7 э Массква
00718 700 Сюткин В.

Modern
70-80
Kids
Patriotic

Hits
70-80
A
A
Exit

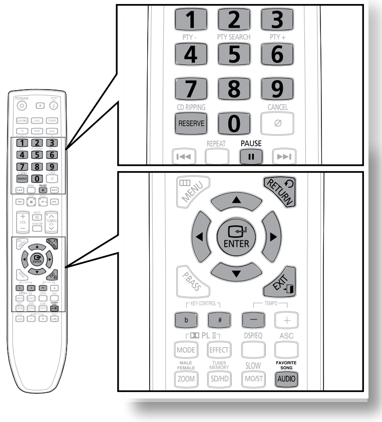
# FAVORITE SONG FUNCTION

You can save the song you like or sing often in the Favorite list 1,2 or 3 with which you can easily find and sing a song. You can save 50 songs for each Favorite list.

## Saving FAVORITE SONG

### Case 1>

1. During the stop mode, press the **FAVORITE SONG** button.
   - During the Menu mode, Use Cursors ▲,▼,◀,▶ button to select **Favorite Lists**.
2. Press **RED (b)**, **GREEN (#)**, **Yellow (-)** button to select the location to save among **FAVORITE1**, **2**, **3**.
3. Press the **number (0~9)** button to enter the song you want.
4. Press **FAVORITE SONG** button to save it on the favorite list.

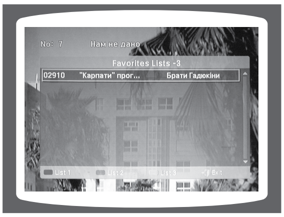

1
2
3
PTY -
PTY SEARCH
PTY +
4
5
6
7
8
9
CD RIPPING
CANCEL
RESERVE
0
REPEAT
PAUSE
MENU
RETURN
ENTER
P.BASS
EXIT
KEY CONTROL
TEMPO
b
#
PL II
DSP/EQ
ASC
MODE
EFFECT
MALE FEMALE
TUNER MEMORY
SLOW
FAVORITE SONG
ZOOM
SD/HD
MO/ST
AUDIO

### Case 2>

1. Select **Search Song** function.
2. Select a song and press **FAVORITE SONG** button to **Add to Favorite**.
3. Select a location of Favorite, and press **ENTER** button.

### Case 3>

1. During the playback, press **PAUSE** (⏸) button.
2. Press **FAVORITE SONG** button.
3. Press ▲,▼ button to select the favorite list you want to save the song.
4. Press **ENTER** button to save the song.


No: 7 Нам не дано

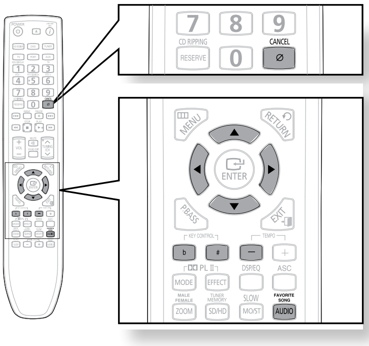
Favorites Lists -3

| | | |
|---|---|---|
| 02910 | "Карпати" прог... | Брати Гадюкіни |

List 1
List 2
List 3
Exit

## Deleting FAVORITE SONG

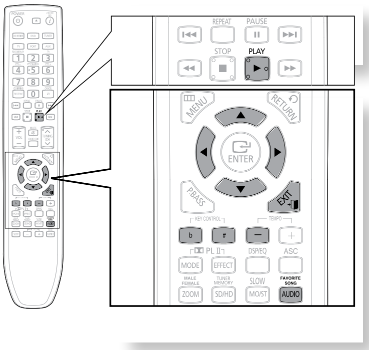
1. Press the **FAVORITE SONG** button in Stop mode, or use ▲,▼,◀,▶ button to select **Karaoke** → **Favorite lists** in Menu screen.
2. Use the **RED (b)**, **GREEN (#)**, **YELLOW (-)** buttons to select a desired Favorite list.
3. Select a song to delete and press the **CANCEL** button.

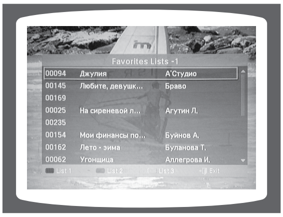

7
8
9
CD RIPPING
CANCEL
RESERVE
0
MENU
RETURN
ENTER
P.BASS
EXIT
KEY CONTROL
TEMPO
b
#
PL II
DSP/EQ
ASC
MODE
EFFECT
MALE FEMALE
TUNER MEMORY
SLOW
FAVORITE SONG
ZOOM
SD/HD
MO/ST
AUDIO

## Singing FAVORITE SONG

1. Press the **FAVORITE SONG** button in Stop mode, or use ▲,▼,◀,▶ button to select **Karaoke** → **Favorite lists** in Menu screen.
2. Use the **RED (b)**, **GREEN (#)**, **YELLOW (-)** buttons to select a desired Favorite list.
3. Press ▲,▼ button to select the song you want.
4. Press the **PLAY** button to play back the selected song.

➣ To Exit FAVORITE SONG Screen
- Press **EXIT** button.


REPEAT
PAUSE
STOP
PLAY
MENU
RETURN
ENTER
P.BASS
EXIT
KEY CONTROL
TEMPO
b
#
PL II
DSP/EQ
ASC
MODE
EFFECT
MALE FEMALE
TUNER MEMORY
SLOW
FAVORITE SONG
ZOOM
SD/HD
MO/ST
AUDIO


Favorites Lists -1

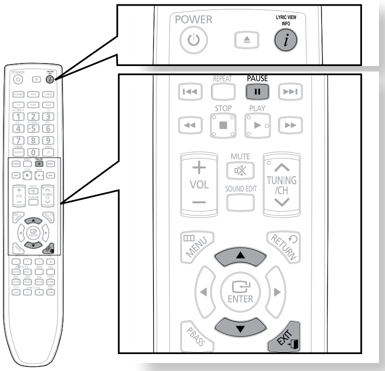
| | | |
|---|---|---|
| 00094 | Джулия | А'Студио |
| 00145 | Любите, девушк... | Браво |
| 00169 | | |
| 00025 | На сиреневой л... | Агутин Л. |
| 00235 | | |
| 00154 | Мои финансы по... | Буйнов А. |
| 00162 | Лето - зима | Буланова Т. |
| 00062 | Угонщица | Аллегрова И. |

List 1
List 2
List 3
Exit

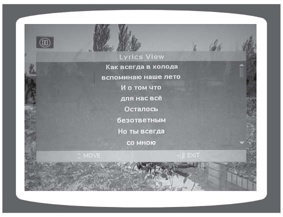
# LYRIC VIEW FUNCTION

You can view lyrics for the current music.

1. Plays a song from Stop Mode/Favorite Song/Search Song/Bowling Game.
2. Press the Pause button and then press the **LYRIC VIEW INFO** Button.
3. Use the ▲,▼ button to move to a desired lyric text.


POWER
LYRIC VIEW INFO
REPEAT
PAUSE
STOP
PLAY
MUTE
VOL
SOUND EDIT
TUNING /CH
MENU
RETURN
ENTER
P.BASS
EXIT

- To exit the Lyric View mode, press the EXIT button.

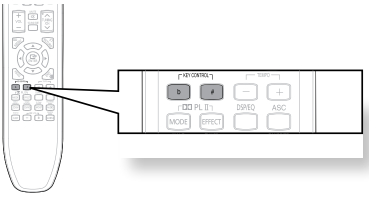

Lyrics View
MOVE
EXIT

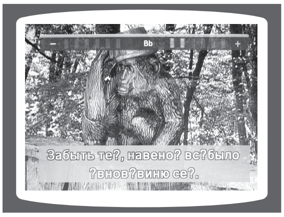
Как всегда в холода
вспоминаю наше лето
И о том что
для нас всё
Осталось
безответным
Но ты всегда
со мною

# KEY CONTROL

During the playback, press the **KEY CONTROL** buttons.

- Each time **GREEN (#)** button is pressed, the key is increased, and each time **RED (b)** button is pressed, the key is decreased.


KEY CONTROL
TEMPO
b
#
PL II
DSP/EQ
ASC
MODE
EFFECT

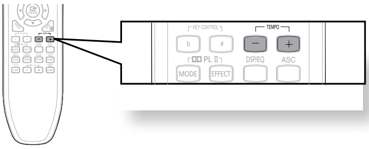


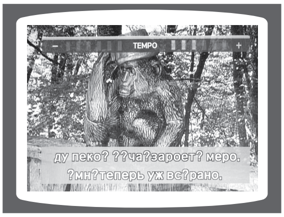
Забыть те?, навено? вс?было
?внов?виню се?.

# TEMPO CONTROL

During the playback, press the **TEMPO** buttons.

- Each time **BLUE (+)** button is pressed, the tempo gets faster, and each time **YELLOW (–)** button is pressed the tempo gets slower.


KEY CONTROL
TEMPO
b
#
PL II
DSP/EQ
ASC
MODE
EFFECT



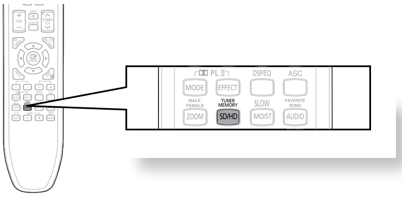
ду пеко? ??ча?зароет? меро.
?мн?теперь уж вс?рано.

# karaoke

## MALE-FEMALE KEY CONTROL

During the playback, press the **MALE/FEMALE** button.

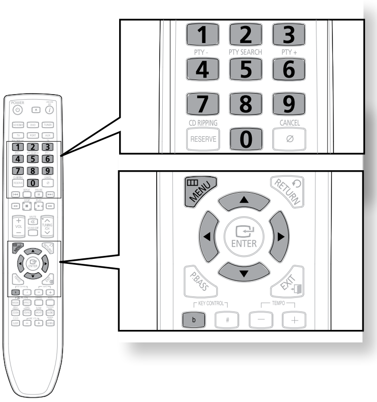
- Each time the **MALE/FEMALE** button is pressed, this selection alternates between Male and Female.
- Select Male when singing in male voice and select Female when singing in female voice.


PL II
DSP/EQ
ASC
MODE
EFFECT
MALE FEMALE
TUNER MEMORY
SLOW
FAVORITE SONG
ZOOM
SD/HD
MO/ST
AUDIO

## BOWLING GAME FUNCTION

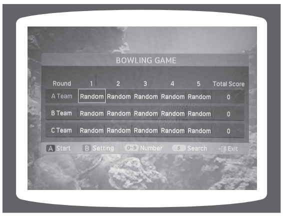
- You can make a team to participate in a singing contest.
- You can make the singing contest in up to 5 rounds with 3 different teams (max).
- One team can select 1st, 3rd or 5th round in a 2- or 3-teams contest.

1. Press the **MENU** button in Stop mode.
2. Use the ▲,▼,◀,▶ button to select **Karaoke → Bowling Game**.


1
2
3
PTY -
PTY SEARCH
PTY +
4
5
6
7
8
9
CD RIPPING
CANCEL
RESERVE
0
MENU
RETURN
ENTER
P.BASS
EXIT
KEY CONTROL
TEMPO

### Starting Bowling Game

1. Select Bowling Game mode.
2. Use the ▲,▼,◀,▶ button to move to the team or to the applicable round and choose a song.
3. Use the **number (0~9)** button or the Search Song list to select a song.
4. When done, press the **RED (b)** button to start the game.
   - You can select a song in any round of the contest, not just at your turn.
   - If you do not select a song, a random song will be played.



BOWLING GAME

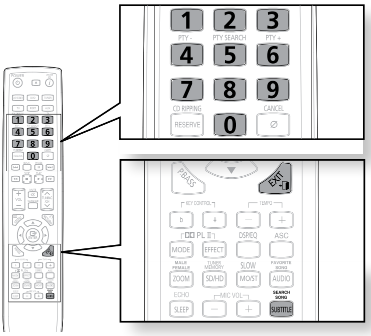
| Round | 1 | 2 | 3 | 4 | 5 | Total Score |
|---|---|---|---|---|---|---|
| A Team | Random | Random | Random | Random | Random | 0 |
| B Team | Random | Random | Random | Random | Random | 0 |
| C Team | Random | Random | Random | Random | Random | 0 |

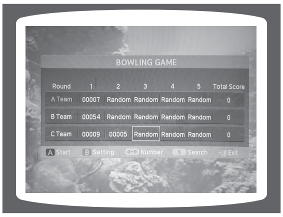
A Start
B Setting
0~9 Number
S Search
Exit

# BOWLING GAME FUNCTION

## Reserving a song in the Bowling Game

1. In Bowling Game mode, use the **number (0~9)** button to select a song.
    - or In Bowling Game mode, press the **SEARCH SONG** button. Select a song in the Search song list.


1
2
3
PTY -
PTY SEARCH
PTY +
4
5
6
7
8
9
CD RIPPING
CANCEL
RESERVE
0
P.BASS
EXIT
KEY CONTROL
TEMPO
PL II
DSP/EQ
ASC
MODE
EFFECT
MALE FEMALE
TUNER MEMORY
SLOW
FAVORITE SONG
ZOOM
SD/HD
MO/ST
AUDIO
ECHO
MIC VOL
SEARCH SONG
SLEEP
SUBTITLE



BOWLING GAME

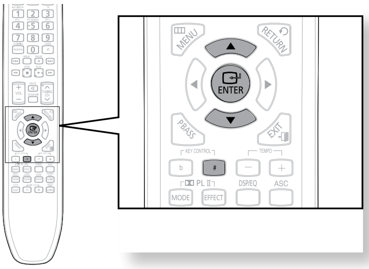
| Round | 1 | 2 | 3 | 4 | 5 | Total Score |
|---|---|---|---|---|---|---|
| A Team | 00007 | Random | Random | Random | Random | 0 |
| B Team | 00054 | Random | Random | Random | Random | 0 |
| C Team | 00009 | 00005 | Random | Random | Random | 0 |

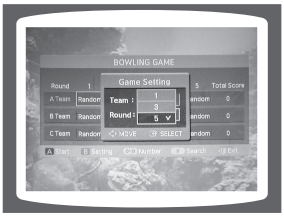
A Start
B Setting
0~9 Number
S Search
Exit

- To return to the Bowling Game mode, press the EXIT button.

## Setting Bowling Game

1. In Bowling Game mode, select the **GREEN (#)** button.
2. Use the ▲,▼ button to select a desired item (Team, Round) and press the **ENTER** button.
3. When a dialog box pops up, use the ▲,▼ button to select a desired number and press the **ENTER** button.
4. To apply your settings, press the **GREEN (#)** button.


MENU
RETURN
ENTER
P.BASS
EXIT
KEY CONTROL
TEMPO
b
#
PL II
DSP/EQ
ASC
MODE
EFFECT



BOWLING GAME

Game Setting

Team : 1

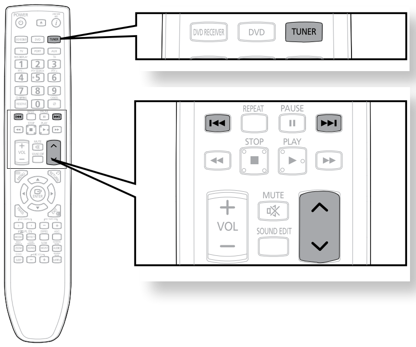
Round : 3

5

Round
1
5
Total Score
A Team
Random
andom
0
B Team
Random
andom
0
C Team
Random
andom
0
MOVE
SELECT
A Start
B Setting
0~9 Number
S Search
Exit

## LISTENING TO RADIO

### Remote Control


DVD RECEIVER
DVD
TUNER
REPEAT
PAUSE
STOP
PLAY
MUTE
VOL
SOUND EDIT

1. Press the **TUNER** button to select the FM band.
2. Tune in to the desired station.
    - **Automatic Tuning 1** : When the ⏮,⏭ button is pressed, a preset broadcast station is selected.
    - **Automatic Tuning 2** : Press and hold the ∧,∨ button to automatically search for active broadcasting stations.
    - **Manual Tuning** : Briefly press the ∧,∨ button to increase or decrease the frequency incrementally.

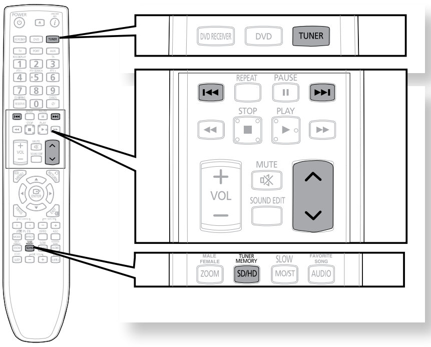
### Main Unit

1. Press the **FUNCTION** button to select the FM band.
2. Select a broadcast station.
    - **Automatic Tuning 1** : Press the **STOP** (■) button to select **PRESET** and then press the ⏮,⏭ button to select the preset station.
    - **Automatic Tuning 2** : Press the **STOP** (■) button to select **MANUAL** and then press and hold the ⏮,⏭ button to automatically search the band.
    - **Manual Tuning** : Press the **STOP** (■) button to select **MANUAL** and then briefly press the ⏮,⏭ button to tune in to a lower or higher frequency.

Press the **MO/ST** button to listen in Mono/Stereo.
- Each time the button is pressed, the sound switches between **STEREO** and **MONO**.
- In a poor reception area, select MONO for a clear, interference-free broadcast.

## PRESETTING STATIONS

Example : Presetting FM 89.10 in the memory

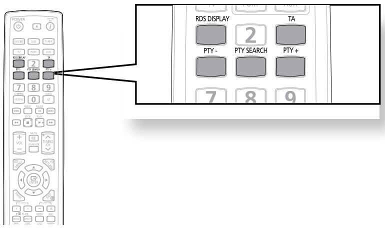

DVD RECEIVER
DVD
TUNER
REPEAT
PAUSE
STOP
PLAY
MUTE
VOL
SOUND EDIT
MALE FEMALE
TUNER MEMORY
SLOW
FAVORITE SONG
ZOOM
SD/HD
MO/ST
AUDIO

1. Press the **TUNER** button to select the FM band.
2. Press the ∧,∨ button to select **89.10**.
3. Press the **TUNER MEMORY** button.
4. Press the ⏮,⏭ button to select a preset number.
    - You can select between presets 1 and 15.
5. Press the **TUNER  MEMORY** button again.
6. To preset another station, repeat steps 2 to 5.
    - To tune in to a preset station, press the ⏮,⏭ button on the remote control to select a channel.

# ABOUT RDS BROADCASTING

## Using the RDS (Radio Data System) to receive FM stations

RDS allows FM stations to send an additional signal along with their regular program signals. For example, the stations send their station names, as well as information about what type of program they broadcast, such as sports or music, etc.



## Description on RDS function

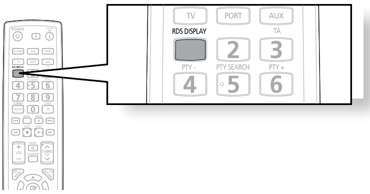
- PTY (Program Type) : Displays the type of programme currently being broadcast
- PS NAME (Program Service Name) : Indicates the name of broadcasting station and is composed of 8 characters.
- RT (Radio Text) : Decodes the text broadcast by a station (if any) and is composed of maximum 64 characters.
- CT (Clock Time) : Decodes the real time clock from the FM frequency.
- TA (Traffic Announcement) : "TA ON"shows that the traffic announcement is in progress.

- RDS may not operate correctly if the station tuned is not transmitting RDS signal properly or if the signal strength is weak.
- Some stations may not transmit PTY, RT or CT information therefore this may not be displayed in all cases.

## To show the RDS signals

You can see the RDS signals the station sends on the display.

**Press the RDS DISPLAY while listening to an FM station.**



- Each time you press the button, the display change to show you the following information : PS NAME ➞ RT ➞ CT ➞ Frequency

---

- PS (Program Service) : While searching, <PS> appears and then the station names will be displayed. <NO PS> appears if no signal is sent.
- RT(RadioText) : while searching, <RT> appears and then text messages the station sends will be displayed. <NO RT> appears if no signal is sent.
- Frequency : station frequency (non-RDS service)

---

About characters shown in the display

When the display shows PS,or RT signals,the following characters are used.

- The display window cannot differentiate upper case and lower case letters and always uses upper case letters.
- The display window cannot show accented letters, <A,> for instance, may stand for accented <A’s> like <À, Â, Ä, Á, Å and Ã.>

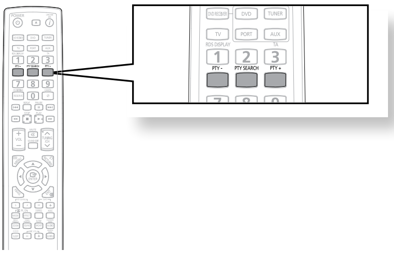
## PTY (Program Type) indication and PTY-SEARCH function

One of the advantages of the RDS service is that you can locate a particular kind of program from the preset channels by specifying the PTY codes.

### To search for a program using the PTY codes

### Before you start, remember...

- The PTY Search is only applicable to preset stations.
- To stop searching any time during the process, press **PTY SEARCH** while searching.
- There is a time limit in doing the following steps. If the setting is cancelled before you finish, start from step 1 again.
- When pressing the buttons on the primary remote control, make sure that you have selected the FM station using the primary remote control.



1. Press the **PTY SEARCH** while listening to an FM station.
2. Press the **PTY-** or **PTY+** until the PTY code you want appears on the display.
   - The display gives you the PTY codes described to the right.
3. Press the **PTY SEARCH** again, while the PTY code selected in the previous step is still on the display.
   - The Centre unit searches 15 preset FM stations, stops when it finds the one you have selected, and tunes in that station.

| Display | Program Type |
|---|---|
| NEWS | News including an announced opinion and report |
| AFFAIRS | Several matters including a current incident, documentary, discussion and analysis. |
| INFO | Information including weights and measures, returns and forecast, matters interesting the customer, medical information, etc. |
| SPORT | Sports |
| EDUCATE | Education |
| DRAMA | Drama-Radio serial, etc. |
| CULTURE | Culture-National or local culture including the religious problem, social science, language, cinema, etc. |
| SCIENCE | Natural science and technology |
| VARIED | Others-Speech, amusing program (quiz, game), interview, comedy and satirical play, etc. |
| POP M | Pop music |
| ROCK M | Rock music |
| M.O.R.M | Current contemporary music considered to be “easy listening.” |

| Display | Program Type |
|---|---|
| LIGHT M | Light classical music- Classical music and instrumental and chorus music |
| CLASSICS | Heavy classical music-Orchestra music, symphony, chamber music and opera |
| OTHER M | Other music - Jazz, R&B country music |
| WEATHER | Weather |
| FINANCE | Finance |
| CHILDREN | Children’s programmes |
| SOCIAL A | Social affairs |
| RELIGION | Religion |
| PHONE IN | Phone in |
| TRAVEL | Travel |
| LEISURE | Leisure |
| JAZZ | Jazz Music |
| COUNTRY | Country Music |
| NATION M | National Music |
| OLDIES | Oldies Music |
| FOLK M | Folk Music |
| DOCUMENT | Documentary |

# convenient function

## SLEEP TIMER FUNCTION

You can set the time that the Home Cinema will shut itself off.

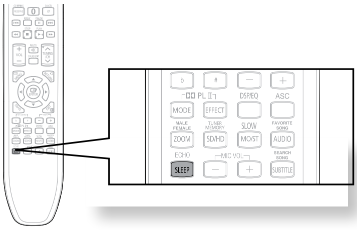
Press the **SLEEP** button.

- **SLEEP** will be displayed. Each time the button is pressed, the preset time in minutes changes as follows : 10 ➞ 20 ➞ 30 ➞ 60 ➞ 90 ➞ 120 ➞ 150 ➞ OFF.

To confirm the sleep timer setting, press the **SLEEP** button.

- The remaining time before the Home Cinema will shut itself off is displayed.
- Pressing the button again changes the sleep time from what you have set earlier.

To cancel the sleep timer, press the **SLEEP** button until **OFF** appears on the display.

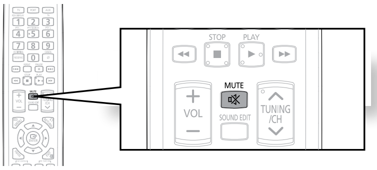

b
#
−
+
PL II
DSP/EQ
ASC
MODE
EFFECT
MALE FEMALE
TUNER MEMORY
SLOW
FAVORITE SONG
ZOOM
SD/HD
MO/ST
AUDIO
ECHO
MIC VOL
SEARCH SONG
SLEEP
SUBTITLE

## MUTE FUNCTION

This is useful when answering a doorbell or telephone call.

Press the **MUTE** button.

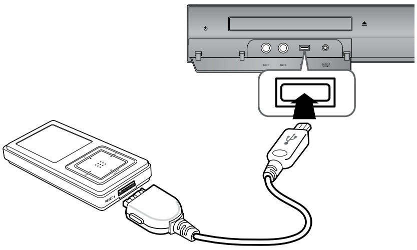
- **MUTE** appears in the display.
- To restore the sound, press the **MUTE** button again.


STOP
PLAY
MUTE
VOL
SOUND EDIT
TUNING /CH

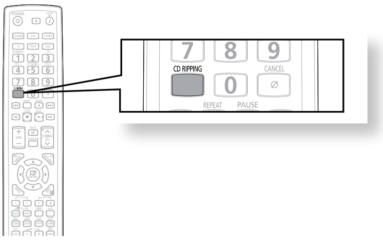
# convenient function

## CD RIPPING

Converts audio sound of the CD into a MP3 file format before sending to a USB storage device.



1. Connect the USB device.
2. Insert the audio CD into the CD tray.
3. Press the **CD RIPPING** button.
    - To start ripping the current track, press the **CD RIPPING** button on the remote control while the system is playing a track or stopped temporarily.
    - To rip the entire CD, press and hold the **CD RIPPING** button on the remote control.
        -"FULL CD RIPPING" appears on the display and ripping starts.
4. Press the **STOP** (■) button to stop ripping.
    - When the CD ripping is done, a directory named "RIPPING" will be created in the USB device and the ripped file will be saved in a format of "SAM-XXXX".mp3".



- Do not disconnect the USB connection or the power cable during the CD ripping. Otherwise, it may cause damage to the data. To stop CD ripping, press the **STOP** button and disconnect the USB device after the system stops playing the CD completely.
- If you disconnect the USB connection during the CD ripping, the system will turn off and you will not be able to delete the ripped file.
- If you connect the USB device to the system while it is playing a CD, the system stops playing and will resume playing when the USB connection initialization is completed. (The initialization time may differ depending on the type of the USB device.)
- DTS-CDs cannot be ripped.
- If the ripping duration is less than 5 seconds, a ripping file may not be created.
- CD ripping works only if the USB device or the HDD is formatted in the FAT file system. (The NTFS file system is not supported.) For a list of compliant devices, refer to the specification of the USB host.
- Ripping is performed at a normal speed of x1. The ripping time may be longer with some USB devices.
- While the system is ripping a CD, the audio sound will not be output.
- Do not put touch or move the system while it is ripping a CD.
- When CD Ripping is on , all buttons can't be worked except STOP and POWER buttons.

# troubleshooting

Refer to the chart below when this unit does not function properly. If the problem you are experiencing is not listed below or if the instruction below does not help, turn off the unit, disconnect the power cord, and contact the nearest authorized dealer or Samsung Customer Service Centre.

| SYMPTOM | Check/Remedy |
|---|---|
| **Disc tray does not open.** | • Is the power cord plugged securely into the outlet?<br>• Turn off the power and then turn it back on. |
| **Playback does not start immediately when the Play/Pause button is pressed.** | • Are you using a deformed disc or a disc with scratches on the surface?<br>• Wipe the disc clean. |
| **Sound is not produced.** | • No sound is heard during fast playback, slow playback, and step motion playback.<br>• Are the speakers connected properly? Is the speaker setup correctly customized?<br>• Is the disc severely damaged? |
| **Sound can be heard only from a few speakers and not all six.** | • When listening to a CD or radio, sound is output to the front speakers (L/R) only. Select "PRO LOGIC II" by pressing DD PL II (Dolby Pro Logic II) on the remote control to use all six speakers.<br>• Make sure that the DVD disc is 5.1-CH compatible.<br>• If you set C, SL, and SR to NONE in the speaker mode in the audio setup of the setup screen, no sound is heard from the Centre speaker and the rear left and right speakers. Set C, SL, and SR to SMALL. |
| **Dolby Digital 5.1 CH Surround Sound is not produced.** | • Is there "Dolby Digital 5.1 CH" mark on the disc? Dolby Digital 5.1 CH Surround Sound is produced only if the disc is recorded with 5.1 channel sound.<br>• Is the audio language correctly set to DOLBY DIGITAL 5.1-CH in the information display? |
| **The remote control does not work.** | • Is the remote control being operated within its operation range of angle and distance?<br>• Are the batteries exhausted?<br>• Have you selected the mode(TV/DVD) functions of the remote control (TV or DVD) correctly? |
| **• Disc is rotating but no picture is produced.**<br>**• Picture quality is poor and picture is shaking.** | • Is the TV power on?<br>• Are the video cables connected properly?<br>• Is the disc dirty or damaged?<br>• A poorly manufactured disc may not be playable. |

| SYMPTOM | Check/Remedy |
|---|---|
| **Audio language and subtitles do not work.** | • Audio language and subtitles will not work if the disc does not contain them. |
| **Menu screen does not appear even when the menu function is selected.** | • Are you using a disc that does not contain menus? |
| **Aspect ratio cannot be changed.** | • You can play 16:9 DVDs in 16:9 WIDE mode, 4:3 LETTER BOX mode, or 4:3 PAN SCAN mode, but 4:3 DVDs can be seen in 4:3 ratio only. Refer to the DVD disc jacket and then select the appropriate function. |
| • **The main unit is not working. (Example: The power goes out or the front panel key doesn't work or a strange noise is heard.)**<br>• **The DVD player is not working normally.** | • Turn off the power and hold the **STOP** ( ■ ) button on the remote control for longer than 5 seconds (reset function).<br>**Using the RESET function will erase all stored settings. Do not use this unless necessary.** |
| **The rating level password has has been forgotten.** | • While “NO DISC” message appears on the display of the main unit, hold the remote control's **STOP** ( ■ ) button for longer than 5 seconds. “INITIAL” appears on the display and all settings will return to the default values.<br>• Press the POWER button.<br>**Using the RESET function will erase all stored settings. Do not use this unless necessary.** |
| **Can't receive radio broadcast.** | • Is the antenna connected properly?<br>• If the antenna's input signal is weak, install an external FM antenna in an area with good reception. |

# language code list

Enter the appropriate code number for the initial settings “Disc Audio”, “Disc Subtitle” and/or “Disc Menu” (See page 51).

| Code | Language | Code | Language | Code | Language | Code | Language |
|---|---|---|---|---|---|---|---|
| 1027 | Afar | 1181 | Frisian | 1334 | Latvian, Lettish | 1506 | Slovenian |
| 1028 | Abkhazian | 1183 | Irish | 1345 | Malagasy | 1507 | Samoan |
| 1032 | Afrikaans | 1186 | Scots Gaelic | 1347 | Maori | 1508 | Shona |
| 1039 | Amharic | 1194 | Galician | 1349 | Macedonian | 1509 | Somali |
| 1044 | Arabic | 1196 | Guarani | 1350 | Malayalam | 1511 | Albanian |
| 1045 | Assamese | 1203 | Gujarati | 1352 | Mongolian | 1512 | Serbian |
| 1051 | Aymara | 1209 | Hausa | 1353 | Moldavian | 1513 | Siswati |
| 1052 | Azerbaijani | 1217 | Hindi | 1356 | Marathi | 1514 | Sesotho |
| 1053 | Bashkir | 1226 | Croatian | 1357 | Malay | 1515 | Sundanese |
| 1057 | Byelorussian | 1229 | Hungarian | 1358 | Maltese | 1516 | Swedish |
| 1059 | Bulgarian | 1233 | Armenian | 1363 | Burmese | 1517 | Swahili |
| 1060 | Bihari | 1235 | Interlingua | 1365 | Nauru | 1521 | Tamil |
| 1069 | Bislama | 1239 | Interlingue | 1369 | Nepali | 1525 | Tegulu |
| 1066 | Bengali; Bangla | 1245 | Inupiak | 1376 | Dutch | 1527 | Tajik |
| 1067 | Tibetan | 1248 | Indonesian | 1379 | Norwegian | 1528 | Thai |
| 1070 | Breton | 1253 | Icelandic | 1393 | Occitan | 1529 | Tigrinya |
| 1079 | Catalan | 1254 | Italian | 1403 | (Afan) Oromo | 1531 | Turkmen |
| 1093 | Corsican | 1257 | Hebrew | 1408 | Oriya | 1532 | Tagalog |
| 1097 | Czech | 1261 | Japanese | 1417 | Punjabi | 1534 | Setswana |
| 1103 | Welsh | 1269 | Yiddish | 1428 | Polish | 1535 | Tonga |
| 1105 | Danish | 1283 | Javanese | 1435 | Pashto, Pushto | 1538 | Turkish |
| 1109 | German | 1287 | Georgian | 1436 | Portuguese | 1539 | Tsonga |
| 1130 | Bhutani | 1297 | Kazakh | 1463 | Quechua | 1540 | Tatar |
| 1142 | Greek | 1298 | Greenlandic | 1481 | Rhaeto-Romance | 1543 | Twi |
| 1144 | English | 1299 | Cambodian | 1482 | Kirundi | 1557 | Ukrainian |
| 1145 | Esperanto | 1300 | Canada | 1483 | Romanian | 1564 | Urdu |
| 1149 | Spanish | 1301 | Korean | 1489 | Russian | 1572 | Uzbek |
| 1150 | Estonian | 1305 | Kashmiri | 1491 | Kinyarwanda | 1581 | Vietnamese |
| 1151 | Basque | 1307 | Kurdish | 1495 | Sanskrit | 1587 | Volapuk |
| 1157 | Persian | 1311 | Kirghiz | 1498 | Sindhi | 1613 | Wolof |
| 1165 | Finnish | 1313 | Latin | 1501 | Sangro | 1632 | Xhosa |
| 1166 | Fiji | 1326 | Lingala | 1502 | Serbo-Croatian | 1665 | Yoruba |
| 1171 | Faeroese | 1327 | Laothian | 1503 | Singhalese | 1684 | Chinese |
| 1174 | French | 1332 | Lithuanian | 1505 | Slovak | 1697 | Zulu |

# CAUTIONS ON HANDLING AND STORING DISCS

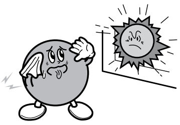
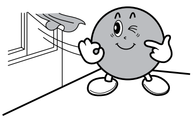
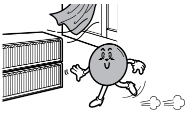
Small scratches on the disc may reduce sound and picture quality or cause skipping.

Be especially careful not to scratch discs when handling them.

## Handling discs

Do not touch the playback side of the disc.
Hold the disc by the edges so that fingerprints will not get on the surface.
Do not stick paper or tape on the disc.

## Disc Storage

| Do not keep in direct sunlight | Keep in a cool ventilated area | Keep in a clean Protection jacket.<br>Store vertically. |
|---|---|---|
|  |  |  |

- Do not allow the discs to become contaminated with dirt.
- Do not load cracked or scratched discs.

## Handling and Storing Discs

If you get fingerprints or dirt on the disc, clean it with a mild detergent diluted in water and wipe with a soft cloth.

- When cleaning, wipe gently from the inside to the outside of the disc

- Condensation may form if warm air comes into contact with cold parts inside the player. When condensation forms inside the player, the player may not operate correctly. If this occurs, remove the disc and let the player stand for 1 or 2 hours with the power on.

# SPECIFICATIONS

| | | |
|---|---|---|
| General | Power Consumption | 75 W |
| | Weight | 3.5 Kg |
| | Dimensions | 430 (W) x 70 (H) x 282 (D) mm |
| | Operating Temperature Range | +5°C~+35°C |
| | Operating Humidity Range | 10 % to 75 % |
| Disc | DVD (Digital Versatile Disc) | Reading Speed : 3.49 ~ 4.06 m/sec. |
| | | Approx. Play Time (Single Sided, Single Layer Disc) : 135 min. |
| | CD : 12 cm (COMPACT DISC) | Reading Speed : 4.8 ~ 5.6 m/sec. |
| | | Maximum Play Time : 74 min. |
| | CD : 8cm (COMPACT DISC) | Reading Speed : 4.8 ~ 5.6 m/sec. |
| | | Maximum Play Time : 20 min. |
| Video Output | Composite Video | 576i/480i |
| | | 1 channel : 1.0 Vp-p (75 Ω load) |
| | Component Video | 576i/480i |
| | | Y : 1.0 Vp-p (75 Ω load) |
| | | Pr : 0.70 Vp-p (75 Ω load) |
| | | Pb : 0.70 Vp-p (75 Ω load) |
| Video/Audio | HDMI | 1080p, 1080i, 720p, 576p/480p |

| | | |
|---|---|---|
| Amplifier | Front speaker output | 166W x 2(3Ω) |
| | Centre speaker output | 166W(3Ω) |
| | Rear speaker output | 166W x 2(3Ω) |
| | Subwoofer speaker output | 170W(3Ω) |
| | Frequency range | 20Hz~20KHz |
| | S/N Ratio | 70dB |
| | Channel separation | 60dB |
| | Input sensitivity | (AUX)400mV |

## SWA-4100(HT-KZ420/TKZ422/TKZ425 )

| | |
|---|---|
| Power Consumption | 50 W |
| Weight | 1.3 Kg |
| Dimensions (W x H x D) | 76 x 256 x 175 mm |
| Operating Temperature Range | +5°C~+35°C |
| Operating Humidity Range | 10% ~ 75% |
| Output | 166W x 2 |
| Frequency range | 20Hz~20KHz |
| S/N Ratio | 75dB |

# appendix

## SPECIFICATIONS

### HT-KZ320

| | | | | |
|---|---|---|---|---|
| Speaker | Speaker system | 5.1ch speaker system | | |
| | | Front/Rear | Centre | Subwoofer |
| | Impedance | 3 Ω | 3 Ω | 3 Ω |
| | Frequency range | 140Hz~20KHz | 140Hz~20KHz | 45Hz~160Hz |
| | Output sound pressure level | 86dB/W/M | 86dB/W/M | 86dB/W/M |
| | Rated input | 166W | 166W | 170 W |
| | Maximum input | 332W | 332W | 340 W |
| | Dimensions (W x H x D) | Front/Rear : 100 x 150 x 89 mm<br>Centre : 300 x 59 x 50 mm<br>Subwoofer : 180 x 320 x 380 mm | | |
| | Weights | Front : 0.5 kg, Centre : 0.6 kg<br>Rear : 0.4 kg, Subwoofer : 4.5 kg | | |

### HT-TKZ322

| | | | | |
|---|---|---|---|---|
| Speaker | Speaker system | 5.1ch speaker system | | |
| | | Front/Rear | Centre | Subwoofer |
| | Impedance | 3 Ω | 3 Ω | 3 Ω |
| | Frequency range | 140Hz~20KHz | 140Hz~20KHz | 45Hz~160Hz |
| | Output sound pressure level | 86dB/W/M | 86dB/W/M | 86dB/W/M |
| | Rated input | 166W | 166W | 170 W |
| | Maximum input | 332W | 332W | 340 W |
| | Dimensions (W x H x D) | Front : 240 x 1020 x 240 mm (stand base : 240 x 240)<br>Rear : 100 x 100 x 93 mm<br>Centre : 300 x 59 x 50 mm<br>Subwoofer : 180 x 320 x 380 mm | | |
| | Weights | Front : 2.8 kg, Centre : 0.6 kg<br>Rear : 0.4 kg, Subwoofer : 4.5 kg | | |

### HT-TKZ325

| | | | | |
|---|---|---|---|---|
| Speaker | Speaker system | 5.1ch speaker system | | |
| | | Front/Rear | Centre | Subwoofer |
| | Impedance | 3 Ω | 3 Ω | 3 Ω |
| | Frequency range | 140Hz~20KHz | 140Hz~20KHz | 45Hz~160Hz |
| | Output sound pressure level | 86dB/W/M | 86dB/W/M | 86dB/W/M |
| | Rated input | 166W | 166W | 170 W |
| | Maximum input | 332W | 332W | 340 W |
| | Dimensions (W x H x D) | Front/Rear : 240 x 1026x 240 mm (stand base : 240 x 240)<br>Centre : 300 x 59 x 50 mm<br>Subwoofer : 180 x 320 x 380 mm | | |
| | Weights | Front : 2.8 kg, Centre : 0.6 kg<br>Rear : 2.6 kg, Subwoofer : 4.5 kg | | |

## HT-KZ420

| Speaker | Speaker system | 5.1ch speaker system | | |
|---|---|---|---|---|
| | | Front/Rear | Centre | Subwoofer |
| | Impedance | 3 Ω | 3 Ω | 3 Ω |
| | Frequency range | 140Hz~20KHz | 140Hz~20KHz | 45Hz~160Hz |
| | Output sound pressure level | 86dB/W/M | 86dB/W/M | 86dB/W/M |
| | Rated input | 166W | 166W | 170W |
| | Maximum input | 332W | 332W | 340W |
| | Dimensions (W x H x D) | Front : 100 x 210 x 99 mm<br>Rear : 101 x 151 x 88 mm<br>Centre : 300 x 57 x 48 mm<br>Subwoofer : 180 x 320 x 380 mm | | |
| | Weights | Front : 0.6 kg, Centre : 0.9 kg<br>Rear : 0.5 kg, Subwoofer : 4.5 kg | | |

## HT-TKZ422

| Speaker | Speaker system | 5.1ch speaker system | | |
|---|---|---|---|---|
| | | Front/Rear | Centre | Subwoofer |
| | Impedance | 3 Ω | 3 Ω | 3 Ω |
| | Frequency range | 140Hz~20KHz | 140Hz~20KHz | 45Hz~160Hz |
| | Output sound pressure level | 86dB/W/M | 86dB/W/M | 86dB/W/M |
| | Rated input | 166W | 166W | 170W |
| | Maximum input | 332W | 332W | 340W |
| | Dimensions (W x H x D) | Front : 260 x 1202 x 260 mm (stand base : 260 x 260)<br>Rear : 101 x 151 x 88 mm<br>Centre : 300 x 57 x 48 mm<br>Subwoofer : 180 x 320 x 380 mm | | |
| | Weights | Front : 3.0 kg, Centre : 0.9 kg<br>Rear : 0.5 kg, Subwoofer : 4.5 kg | | |

## HT-TKZ425

| Speaker | Speaker system | 5.1ch speaker system | | |
|---|---|---|---|---|
| | | Front/Rear | Centre | Subwoofer |
| | Impedance | 3 Ω | 3 Ω | 3 Ω |
| | Frequency range | 140Hz~20KHz | 140Hz~20KHz | 45Hz~160Hz |
| | Output sound pressure level | 86dB/W/M | 86dB/W/M | 86dB/W/M |
| | Rated input | 166W | 166W | 170W |
| | Maximum input | 332W | 332W | 340W |
| | Dimensions (W x H x D) | Front /Rear: 260 x 1202 x 260 mm (stand base : 260 x 260)<br>Centre : 300 x 57 x 48 mm<br>Subwoofer : 180 x 320 x 380 mm | | |
| | Weights | Front : 3.0 kg, Centre : 0.9 kg<br>Rear : 3.0 kg, Subwoofer : 4.5 kg | | |

*: Nominal specification

- Samsung Electronics Co., Ltd reserves the right to change the specifications without notice.
- Weight and dimensions are approximate.

## Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care Centre.

| Region | Country | Customer Care Centre ☎ | Web Site |
|---|---|---|---|
| North America | CANADA | 1-800-SAMSUNG(726-7864) | www.samsung.com/ca |
| | MEXICO | 01-800-SAMSUNG(726-7864) | www.samsung.com/mx |
| | U.S.A | 1-800-SAMSUNG(726-7864) | www.samsung.com/us |
| Latin America | ARGENTINE | 0800-333-3733 | www.samsung.com/ar |
| | BRAZIL | 0800-124-421 , 4004-0000 | www.samsung.com/br |
| | CHILE | 800-SAMSUNG(726-7864) | www.samsung.com/cl |
| | NICARAGUA | 00-1800-5077267 | www.samsung.com/latin |
| | HONDURAS | 800-7919267 | www.samsung.com/latin |
| | COSTA RICA | 0-800-507-7267 | www.samsung.com/latin |
| | ECUADOR | 1-800-10-7267 | www.samsung.com/latin |
| | EL SALVADOR | 800-6225 | www.samsung.com/latin |
| | GUATEMALA | 1-800-299-0013 | www.samsung.com/latin |
| | JAMAICA | 1-800-234-7267 | www.samsung.com/latin |
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| | PUERTO RICO | 1-800-682-3180 | www.samsung.com/latin |
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| | TRINIDAD & TOBAGO | 1-800-SAMSUNG(726-7864) | www.samsung.com/latin |
| | VENEZUELA | 0-800-100-5303 | www.samsung.com/latin |
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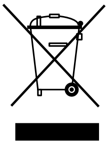
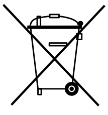


This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.



## Correct disposal of batteries in this product

(Applicable in the European Union and other European countries with separate battery return systems.)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

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